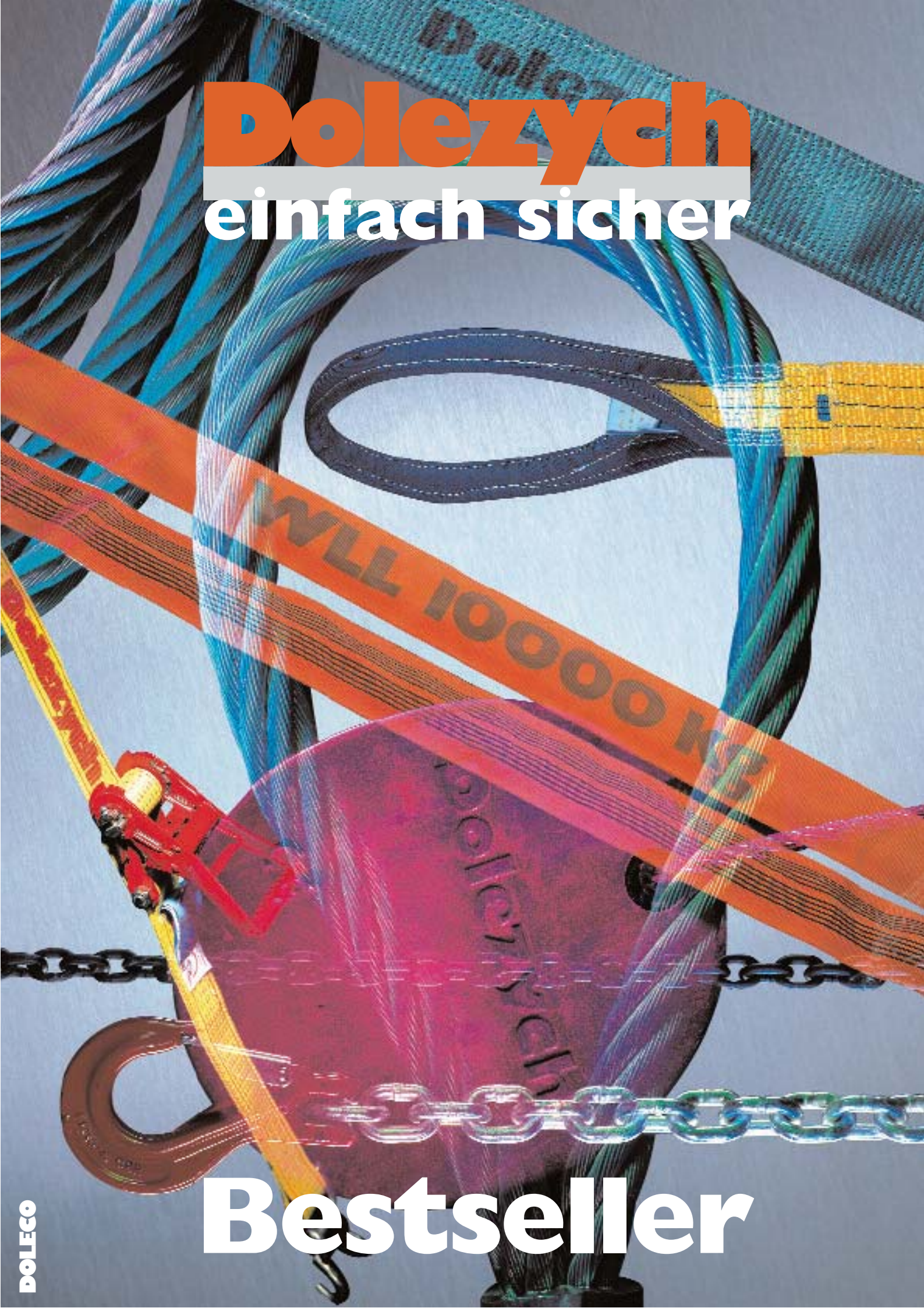
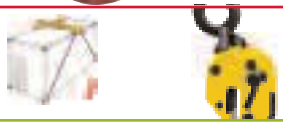

Dolezych
einfach sicher
WLL 100000 KG
Bestseller
DOLECO

Where will I find subjects of my interest ?

		Pages
Lifting slings		13 - 31
DoLex – edge protection		32 - 41 64 - 66
Lifting slings		42 - 53
Roundslings		54 - 63
Load protections		67 - 117
Packages		118 - 124
Personal protective equipment		125 - 137
Nets		138 - 142
Lifting ropes		143 - 163
Steel wire ropes		164 - 177 188 - 189
Rope accessories		178 - 187
Stainless steel cables / accessories		190 - 214
Small diameter steel wire ropes		215 - 217
Fibre ropes		218 - 222
Lifting chains		223 - 264
Lifting equipment		265 - 287
Map/Orders per fax		297 - 298

About us

Dolezych are manufacturers of all kinds of lifting and lashing equipment – of rope products, lifting slings, lifting slings, lashing chains in sets, lifting equipment, like traverses, lifting tongs, cranes and means of load protection. This is the reason why Dolezych are experienced in all aspects of lifting, ropes and lashing. You are going to receive the best products for your needs. “ropes, chains, lifting slings, lifting slings, roundslings, load protection equipment- all of them are specialized products with special benefits when applied. The customer gets from us a product which is meeting best his special requirements when applied” – explains Mr. Udo Dolezych the company’s philosophy. This is completed with services, like advising, checking, maintenance, repairs and training.

Safety

Safety means: ruling out risks. Top-products and the knowledge, how to apply them correctly are limiting your risk in your every day practice. And we are eager to help you in this respect, e.g. by means of:

- a competent advice
- a training to your employees
- demonstrating a trial-car at your site
- a competent telephone and external service
- univocal, visible lifting capacity marking on all slinging equipment. Similarly univocal, visible marking of all means of lashing.
- GS and CE marking, where formally possible
- Production according to the most up-to-date DIN EN standards by observing all work safety regulations (UVV) and those of branch associations (BGR), resp. technical regulations regarding production safety being in force since 2004 (e.g. BGR 500, handling of means of production, pos.2.8)

Experience

Those who take responsibility for safety when lifting, transporting and protecting all kinds of loads, like - since exactly 70 years - Dolezych, know what is the point. Use the experience of trained employees with expertise, who will willingly help you any time in solving also complicated problems connected with lifting and load protection.

Dolezych are supplying safe products however, they are safe only in case, that respective service manuals and BG (earlier UVV) regulations will be observed. Safety results of two elements: product and its handling !

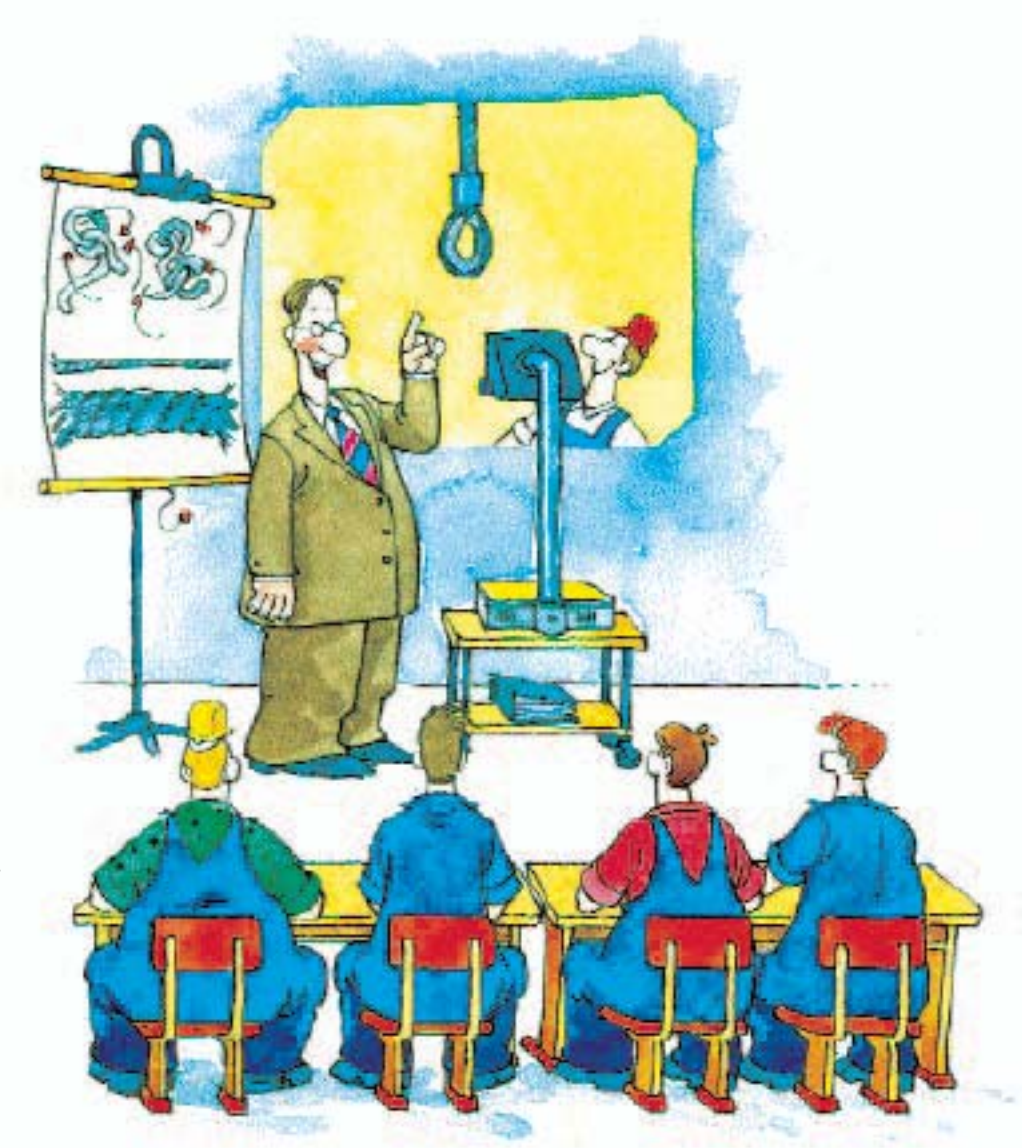
Seminars and training

Those, who are dealing with lifting technique or transport of goods and are responsible, must care to be kept informed, must strive to improve their knowledge and to bring it from time to time up-to-date. This is the reason why seminars and training organized by Dolezych became already an established institution. Our renowned lecturers add life to the seminars and make them attractive. You may expect interesting lectures with comprehensible presentations, as well as with demonstrations by means of video and in practice.

The participation in our seminars will be confirmed by a respective certificate.

We offer one and two-day seminars devoted to the following subjects:

One-day-seminars:



Load protection

Experienced and independent specialists report about the most common errors made when load protection measures are taken and give practice oriented suggestions. A constructive contribution to solving problems are the Dolezych-Simple-Method and the DoMess lashing measuring device. A proof for this is given by a demonstration in practice with a loaded truck.

During the seminar the following aspects will be in a detailed way dealt with:

- legal responsibility for safe loading of goods on trucks
- examples of correct load protection
- aids aimed at helping to take decision as to the selection and control of means of lashing
- firmness of lashing points, truck-superstructures (stanchions, front, side and tail boards) and frames
- practical aids for finding out, without complicated calculations, the necessary lashing force.

Slinging equipment

Competent, independent specialists tell about their experience in handling slinging equipment and give advice how to help decision making on how to apply them most effectively .
You will get acquainted with the DIN EN standards, with work safety regulations resp. the European (machinery-) guiding principles which replace the German UVV regulations and with frequent sources of errors when lifting or transporting. A seminar for experts, work safety engineers and all who are in charge of lifting and work safety techniques. During the seminar, the following aspects will be dealt with in a detailed way:

- aids supporting the decision making process with respect to the selection of slinging equipment such, as traverses, lifting tongs, grabs etc.
- basic safety terms within mechanics – experience and examples applicable to the lifting technique
- wire ropes as slinging equipment – instructions as to their application, wear properties, disposal criteria
- lifting steel chains - instructions as to their application, wear properties, disposal criteria
- training for operators of slinging equipment. Certification of their skills according to the BGR (branch associations') regulations.

Personal safety equipment against falling down

In case of work on altitude necessary are safety measures. When technical equipment can not be applied, safety must be secured by personal safety equipment. Our seminar "Personal safety equipment against falling down" will give you a survey of various systems and will explain, how the different components are to be used.

Steel wire ropes

During this seminar you will get valuable information on all kinds of wire ropes applied in machines run by ropes, e.g. cranes, excavators etc. We will give you tips with respect to the selection, to handling, mounting, inspection and maintenance of the adequate rope and will draw your attention to the possible sources of faults which may result in shortening the life of the rope.

Two-day-seminars:

Apart from the one-day-seminars, we also offer two-day-seminars which first of all are aimed at the needs of instructors, specialists in work safety and experts. Due to a smaller number of participants, as compared with the one-day-seminars, here the educational and training results are even higher. Please find below our offer for seminars devoted to the following topics:

Safe lifting – theory and practice

In addition to the subjects of one-day-seminars on slinging equipment (see the opposite page), the two-day-seminar lectures are going more into deep into the subject of slinging equipment in the operation of lifting equipment. Stress is put on practice: practical training with ropes, chains, lifting slings, roundslings, grabs and tongs is offered at a crane. Moreover, an inspection in practice takes place (disposal criteria) with respect to slinging equipment (i.a. by means of magnetic crack detection). In a smaller circle of participant there is more time available for discussing individual questions.

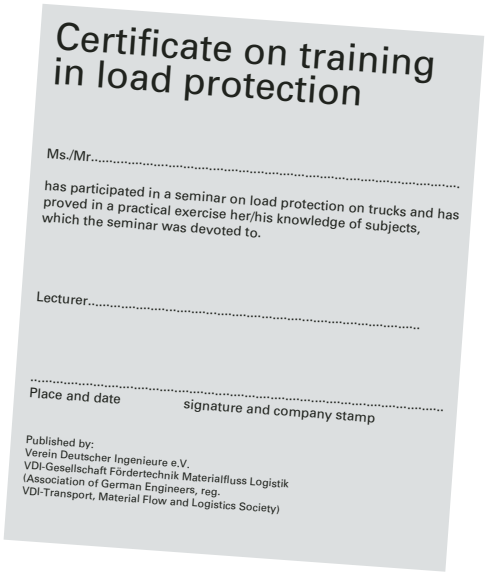
Load protection: lashing made simple to a practitioner

During this seminar you will learn all the details connected with the topic "Load protection". In addition to the topics of the one-day-seminar, experienced lecturers will show you during practical experiments and demonstrations while driving, how most different loads can be protected for transport purposes fast and correct. You will see with your own eyes which forces influence the load during the drive and during the process of breaking. We inform of the most common wrong assumptions made in connection with load protection and give valuable advice. Participants have many opportunities to discuss with lecturers – specialists from the Police, from branch associations and from Dolezych and to exchange experiences.

A constructive contribution giving guidance to solving problems are the Dolezych-Simple-Method and the DoMess lashing measuring device which may proof indispensable for lashing purposes. The Dolezych-Simple-Method creates a new standard as, depending on circumstan-ces, it offers an unusually simple method of selecting adequate means of lashing.

Take this unusual opportunity to learn about load protection fast, in details and in a practice oriented way.

All participants of the two-day-seminar on load protection will get with their seminar certificate an additional document proving their training according to the VDI 2700a requirements.


Certificate on training in load protection

Ms./Mr.....

has participated in a seminar on load protection on trucks and has proved in a practical exercise her/his knowledge of subjects, which the seminar was devoted to.

Lecturer.....

Place and date ..... signature and company stamp

Published by:
Verein Deutscher Ingenieure e.V.
VDI-Gesellschaft Fördertechnik Materialfluss Logistik
(Association of German Engineers, reg.
VDI-Transport, Material Flow and Logistics Society)

You will find detailed information, valid terms and application papers to our seminars on our internet page under: www.dolezych.de.

Do you wish to have a training at your site, in your facilities ? No problem !We shall come to you, we shall take care of all the seminar papers and will put together for you a tailored program.

New: Seminar on dangerous loads starts in the fall of 2004!

You will find the exact date on our internet page.

Dolezych, with their lashing belts and tensiometers, have considerably added to the wrapping of Reichstag).

A 24-hour service

For those who are in a hurry:
take advantage of the 24-hour service for standard and stock articles: articles ordered before 12 a.m. will leave Dortmund on the same day.
By the way: Dolezych are in their branch the inventors of the 24-hour service.

Quality and environmental protection

Quality management and environmental protection are vital elements of the company's philosophy and business making policy: the reliability of all Dolezych products has the top-priority, therefore already the certificate of release following the acceptance inspection of incoming raw materials, is an important document for further processing and outfitting . Suppliers may become only those, who are able to meet the high quality requirements of Dolezych. – an important warranty for your security. The additional internal inspections are very strict. Permanent inspections at random from the ongoing production are made and no product (does not matter: a rope, a lifting chain, lifting sling, roundsling, lashing belt or lifting device) is excluded.

Dolezych have according to DIN EN ISO 9001:2000 a double-certification: one for the QM-system and additionally – something special–also for the professional workmanship of their products (the s.c. D-module).
In addition, the environmental protection managing system of Dolezych is covered by a certificate according to the DIN EN ISO 14001 standard. This provides warranty for an economical and appropriate handling e.g. of involved materials, also by means of applying new, friendly to the environment technologies. Quality, clean manufacturing processes and consequently a clean environment, are for us the duty of any seriously acting enterprise.

The control-, repair- and maintenance-service of Dolezych

for all slinging equipment (wire ropes, lifting slings, roundslings, chains) for load protection accessories and lifting equipment – even when they are not of Dolezych production.

Also: load controls for chain drives, winches, lifting tongs and forklifts. You may choose, whether such a material and safety control is to be undertaken in your plant, at the site of operation or at our facilities, in Dortmund.

More information on the control service is to be found on the next page.

The condition of offering advice is information. Therefore please note: the better we are informed by you e.g. about details connected with your plant, about the usual product management or peculiarities of your company, the better we may advise you!

The choice is yours: when you will call for the **Dolezych service car**, all the necessary inspections may be carried out at any place, you wish. But you may also send your products for inspection to us. The maintenance and inspection service will be rendered immediately.

By means of systematic maintenance we would like to help you in maintaining the readiness of your products to be used and to extend their life.

Dolezych will take over the inspections from you. This will be a relief for you and you will always be on the right side.

You will be of course automatically reminded by us of the time of follow-ups.

The work safety order is the legal base for inspections of slinging equipment, of lifting devices, means of loading and "personal protection equipment".

It refers to all technical means of work, like e.g. slinging equipment (lifting slings, round- slings, ropes, chains) that according to §10 they must be regularly checked. According to §11 records on the inspections are to be kept. The interval must depend on operational circum-stances however, according to BGR 500 (former UVV VGB 9a) an inspection should take place at least once a year.

Examples of inspections and possibly repairs of your slinging equipment:

The Dolezych inspection service for slinging equipment includes:

- a yearly visual inspection by an experienced specialist according to such standards, like DIN EN 1492 T1/2 lifting slings and roundslings
- carrying our necessary repairs
- drawing up records.
  Safety inspection is to be recorder by an expert by means of an entry e.g. in a chain's card file.

Inspections involve e.g.

(the following information are excerpts; please find the complete scope of inspection in the Order on Means of Production)

for wire ropes:

- visual inspection for cracks and bends
- fracture of a rope strand
- oose fragments of the superficial layer
- plenty of wire fractures

for ropes of natural fibre:

- fracture of a rope strand
- fibre meal is coming out when rope is wound up
- failures resulting of wet storage or of the influence of aggressive materials

for ropes of chemical fibres:

- fracture of a rope strand
- mechanical failures, strong wear or loosened rope strands
- damages resulting of the influence of aggressive materials

for lifting slings of chemical fibres / lifting slings:

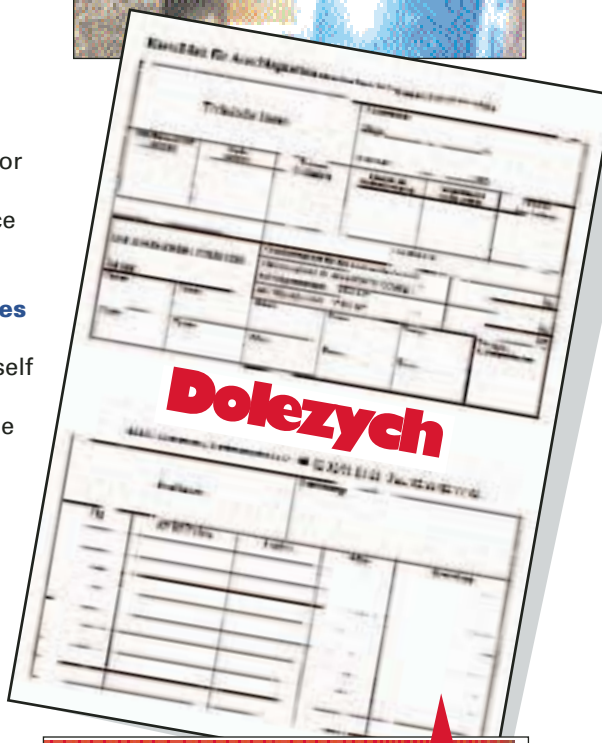
- damaged web edges or in web itself and many fibre fractures, e.g. of more than 10% of all of yarn in the most damaged section
- strong deformations resulting of heat, e.g. because of internal or external friction resp. thermal radiation
- damaged protective coat or its lacing, with respect to slings of endless chemical fibre

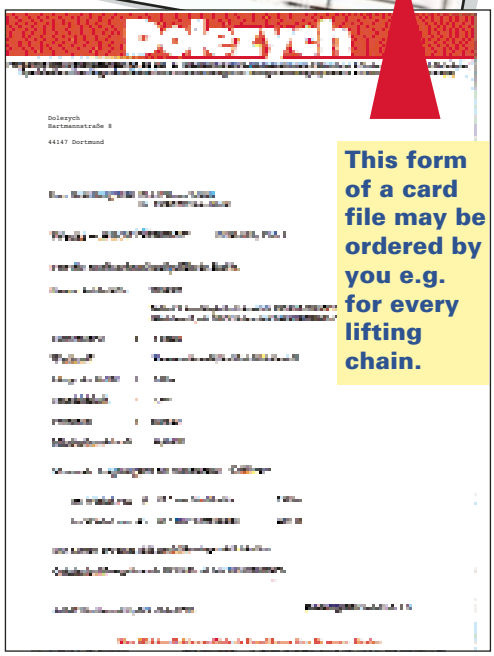
for chains of lifting iron:

- fracture of a chain link
- cracks or corrosion pits which affect the load capacity
- deformation of a chain link
- elongation of the superficial chain measure by more than 3%

  According to BGR 500 (former UVV VBG 9a) lifting chains must be inspected once a year by an expert. Every three years an additional inspection for cracks should take place.

An inspection takes place at your plant, at place of operation or at our plant, just as you wish.
Important ! Chain connecting links and pin joints will be orderly dismounted and checked. Damaged parts will be replaced by genuine parts only.





This form of a card file may be ordered by you e.g. for every lifting chain.

New! The DoQM-system for simple management and for keeping evidence of inspections of slinging equipment!

The work safety order (BetrSichV) being in force since October 2002 sets new requirements to enterprises using slinging equipment. The yearly visual inspection (exception: lifting chains with additional inspection requirements) has been replaced by changing inspection intervals and by the obligation of keeping a more extensive evidence.

§ 10 Examination of the means of work

(2) When means of work are subjected to influences which may cause damages resulting in dangerous situations, the employer is obliged, in due time, according to §3 pass.3, to let the means of work be controlled by competent persons and when necessary - to be tested.. (...)

§ 11 Records

The employer is obliged to record in writing the results of tests according to §10. The competent authority may insist that the records are presented to it at the seat of the enterprise. The records are to be kept for an adequate time, at least until the next examination. (...)

Basing on our experience we know, that even the required univocal identification of subjects of examination and of their files pose a real challenge. This problem is known first of all to enterprises which are using a big number of slinging equipment.

For this reason Dolezych have developed a simple and reliable system which is solving this problem: a univocal marking system a the special software developed by us. With them you are able to identify 100% of all your lifting devices, to enter every check and record all the relevant data.

The software performs, as follows:

- Management of all objects sub jected to examination, not slinging equipment only, but also means of load protection or e.g. machines, systems, stacking trucks, chain drives, rolling gates – in short, everything what according to UVV has to be examined.
- Setting for every article its individual examination intervals
- Printing of examination forms, index cards, stock cards - separately for each warehouse
- Printing of lists of suggested examinations. Thanks to this you will know exactly what should be examined, say next week.
- All objects subjected to examination may even be stored with a respective picture
- Capable for network operation, for accepting orders, and and and....

Self service packings

Do you need Dolezych products of metal or textiles adequately packed up ? With your logo on the pack they will become your trade-mark products.
As a standard, we offer three alternative types of packing.

Blister packs

Especially suitable for smaller products when high quality make-up is desirable.

- best possible protection of product
- manifold possibilities of shaping the packing
- best suitable for shop

Bag packs

Ideal for small and light products.

- You can clearly see the product
- Possibility of shaping by means of inserts and/or saddle-shaping
- Suited for shop displays

Shrink foil packs

Recommendable when bigger and heavier products must be protected

- Water proof shrinking protects especially good against dust, dirt and humidity
- Appealing, compact and sales friendly packings with the possibility of additional individual shaping

The benefits of all the three packaging alternatives are obvious:

- Protection against dirt, dust, humidity
- Clear marking: e.g. well visible data of load capacity or of the length of product
- Possibility of placing an individual overprint, e.g. the EAN-code∑ Easy disposal of packages

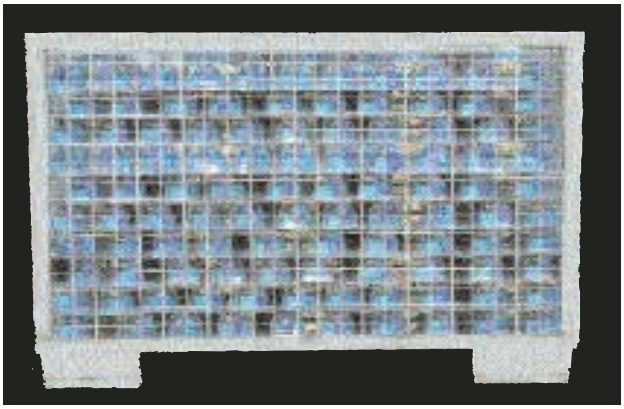
Dolezych

Stand of Dolezych products
On request we willingly offer product stands with individually arranged products.
Such stands are ideal for sales offices, for local fairs and presentations.

Package-units

Space saving package-units in a carton, on a palette or in a crate simplify warehouse logistics. When buying quantities matching these standard package units, take advantage of the lower, as compared with smaller quantities, price for you.

- Space saving warehouse logistics
- Simple handling
- Price benefits



www.dolezych.de - our special service for you

Please visit us in the internet: at **www.dolezych.de** you will find information basing on our catalogues with up-to-date news, offers of more, going into depth, information and interactive application, e.g.the Truckers Disc. www.dolezych.de is an element of our service offer for you. Interesting material about "Safe lifting and transporting" has been prepared for you in six languages. This has been supplemented by: Our company philosophy, Dolezych today – a periodical for our clients for lecture on-line and downloading, or by the Call-back service. Clear, up-to-date and instructive ! Thanks to the integrated functions of searching you will find the information you need with one click.

A survey of our on-line service:

Product information

The whole range of products at one glance – with pictures and useful information. Additionally new products and special offers

Publications suggested by Dolezych!

In order that you apply our products safely, we have arranged for you a list of up-to-date publications on load protection and lifting. You may order the books directly on-line ! Please look also at our book recommendations on page 12.

Seminars

Specified have been all terms of our courses and seminars. With the on-line-form of application you are free to send your application to any seminar you wish and the driving sketch which you may down-load will make your trip to any place, where the seminar will take place, easier.

The scope of downloading

Take advantage of our know-how ! Load down specialized articles devoted to "Safe lifting and transportation". Look at the excerpts from our training videos or get informed of the newest legal regulations and orders.

Dolezych - interactive

Find with the on-line-**Trucker's Disc** interactive out "your appropriate" load protection when lashing down or diagonally.

Easy way! The way to the appropriate rope. Which wire rope for which application ? Find this out on-line.

Service

24 hour service for standard and stock articles ! Orders which will be supplied before 12 a.m. will be dispatched still on the same day.

Our control service for any ropes and slinging equipment (wire ropes, lifting slings, chains), as well as for the means of lashing and and and...Also when they are not of Dolezych production ! Ask on-line for our control service

On-line shop

Order by just one click of the mouse! Of special interest to you should be our on-line shop with the possibility of ordering all alifting the clock. Make your choice out of our comprehen-sive offer of products !

Ordering is fool-proof: just click on the selected products, if necessary - enter the required length and type of outfit, quote the required quantity and then – put the order into the ordered product basket. Then, as a registered user you may order the contents of the product basket.

To make you sure that you will receive products you need, we are supplying you via e-mail a confirmation of order which gives you the opportunity to check whether your order has reached us correctly.

Take advantage of our rent service! Via the on-line rent service you may rent lifting equipment at best prices.

DOLECO®

the international brand of quality products of Dolezych

Books recommended by Dolezych:

For correct load lifting and protection, indispensable for the user is the basic knowledge. Taking into consideration the many existing standards and the complexity of technology and physics, sometimes it is difficult to keep everything in your head, However, it is good to know where you can read about. The information for practitioners has been prepared in a clear, comprehensible and exhaustive way. Examples and practical exercise, up-to-date data on the legal background, as well as most of standards which your must observe, make the books to your indispensable aid !

Our special recommendation for you is:

The book **"Safe Lifting of Loads"** People dealing with lifting bear high responsibility with moving loads, because an error may result in deadly consequences, not to mention injuries. The risk is not only on the side of the lifting person, but also may affect its colleagues and even persons not involved in lifting. More over, the enterprise is under the threat of high damages to property. In other words it is vital that personnel dealing with lifting is well trained and experienced.

The reader will get valuable hints regarding the following topics:

- selection of slinging equipment
- basic terms / principles of lifting
- storage and control of slinging equipment
- tables of load capacity for different slinging equipment
- legal basis (laws, orders, regulations, standards)
- organization of the external examination of slinging equipment
- appraisal of impending danger

The book **"Load protection – the right way"** is addressed to all who deal with transports: to drivers, the loading personnel, the truck owner, but also to the consigner and transport company, because all of them are responsible for the load protection. Clearly worked out in this book has been the responsibility of individual subjects involved in transport. Pictures with examples clearly show details. At the end of the book a check-list has been presented helping to avoid any accidental acting, which is a valuable aid prior to, during and after the process of loading.

The book contains the following topics

- legal and physical bases
- requirements with respect to the truck
- various types of load protection
- fixing the necessary protective forces
- means of lashing and other load protection aids
- examples and practical training

This manual of practical load protection is a basic book for all dealing with transports and contributes considerably to the promotion of transport safety.

Order your copy of this book on page 298.

Lifting slings and roundslings

Eye lifting slings

Stirrup slings

Endless webbing slings

Roundslings

Web sling suspensions

Roundsling suspensions

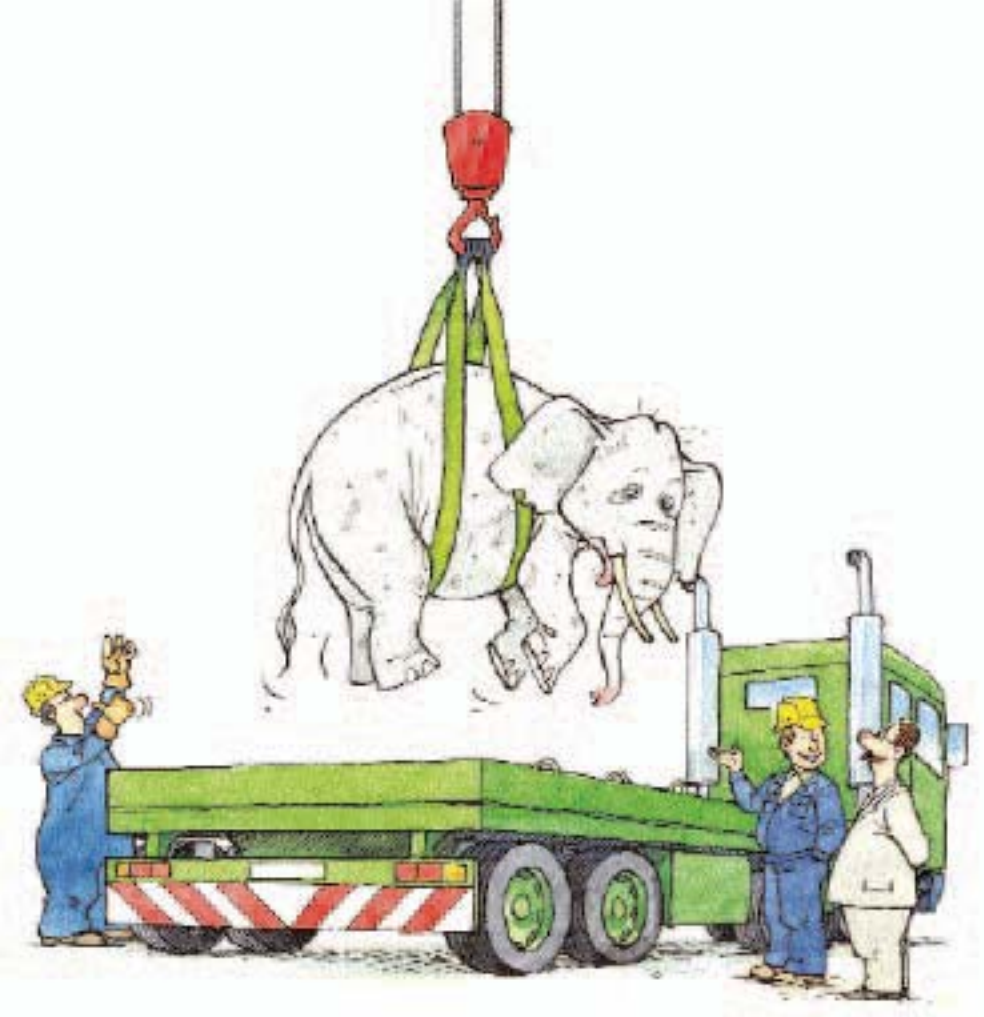
Sharp edge protections

Abraison protections

Rebound protections

Special constructions

Eye slings
Stirrup slings
Endless web slings
Roundslings



Dolezych produces eye-slings and roundslings of polyester (PES), polyamide (PA) and polypropylene (PP), exclusively according to the updatet European standards DIN EN 1492-1:2000 and DIN EN 1492-2:2000.

As German delegate, Dolezych has collaborated at the creation of this European Standardization and apart of this, keeps a close contact with the (German) employer's liability and insurance association in Hannover, responsible for eye-slings and round-slings. This know-how is reflected in Dolezych-products and is a sfety-plus for all users.

The use of textile lifting-products contains many advantages:

- high working load limits with low own-weights
- pleasant handling without problems
- No electrical conductivity
- good adaptability to the goods, exspecially valid for roundslings
- protection of the loaded goods
- no risk of injury to the working staff
- to stow on small space
- color-coded lifting-capacity
- long durability
- high abraison resistance

Dolezych produces and reviews

Safety and Quality are inseparable. The production is subject to high standards of quality and diligence. This is why we are certificated according to DIN EN ISO 9001:2000. As our employees work according to these guidelines exclusively, we guarantee highest secureness for our eye-sling- and roundsling-production. And this alone is not sufficing at Dolezych: additionaly executed internal tests – done on our own test-machines, beginning with material acceptance checks up to the finished product – are done and documented continously.

The result: Dolezych articles are high-class manufactured products of the German eye-sling-and roundsling production. Test-Certificates, accepted by well-known, neutral national and international inspecting authorities, confirm the observance of all safety-guidelines in coherence with highest quality.

Width and thickness.

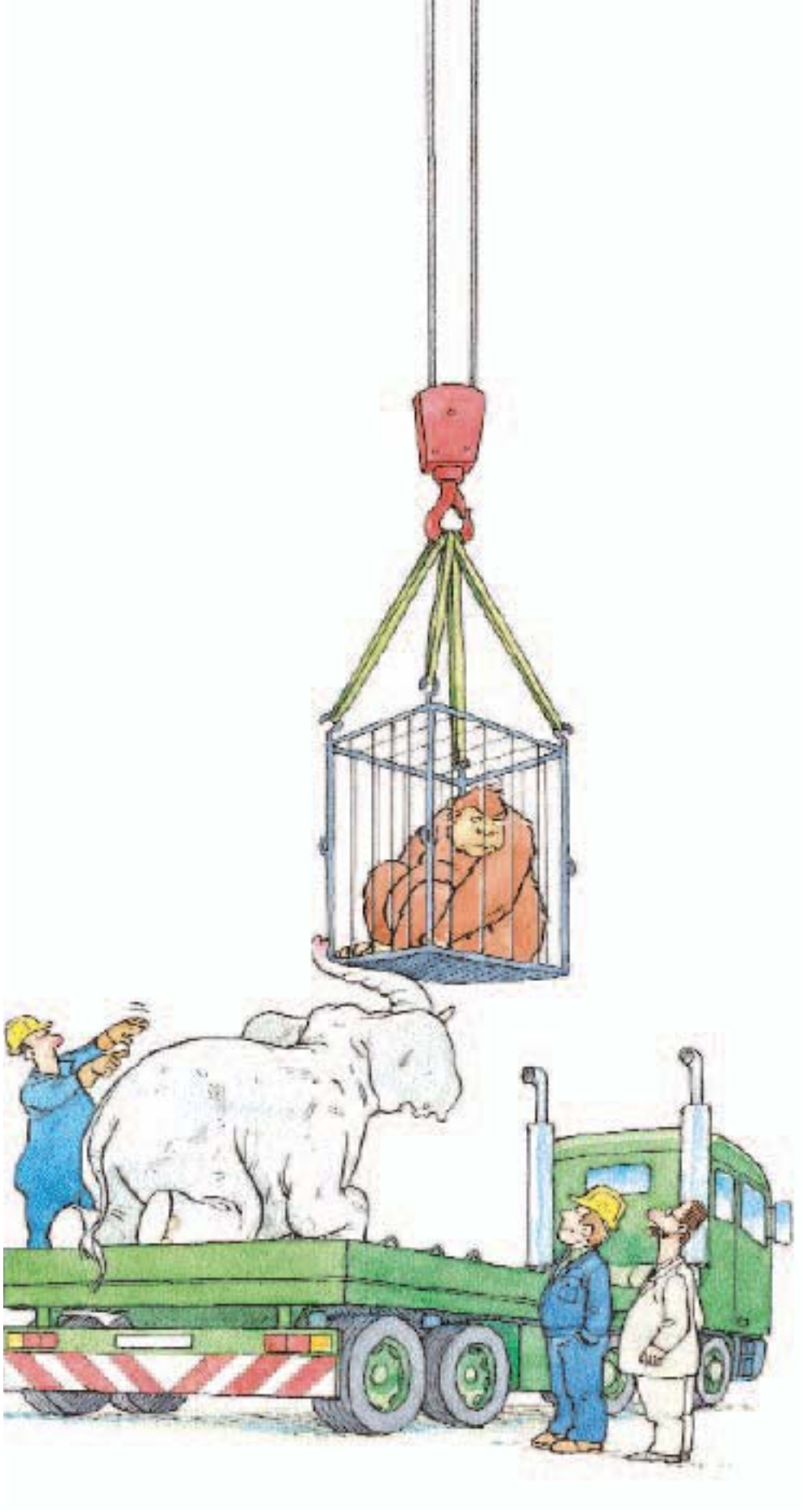
The woven lifting-slings should be with their width up to the mark of praxis and, as 1, 2, 3 or 4-ply sewed, contain the requisited thickness, to prevent wearout. In comparison are narrower slings with identical carrying-capacity mostly thicker than wider ones. With declining sling thickness is of course also the edge stability and transverse rigidity declining. This effect becomes reversible with growing thickness.
Wider lifting slings are good in the hanging mode, when applied with traverses.
Narrower lifting-slings are advantageous at the angle of inclination and are used well as chokers. The width of lifting slings should be selected to make sure that the load will get a good surface support.
Because of this have Dolezych developed most favourable texture constructions for a reasonable and meeting the requirements of practice sling width. These textures are additionally characterized by a specially high stability of edges, by a high friction resistance of surface and good UV-durability.

DoColor – the logical color code

To roundslings (made of laid fibre) and lifting slings (made of woven fibre) there is prescribed a uniform DIN EN color code. This means that Dolezych lifting slings and roundslings of the same lifting capacity have the same color. So for instance lifting slings of a capacity of 1.000 kg have a violet color, at 5.000 kg – are red, at 8.000 kg – blue. At lifting capacities exceeding 10.000 kg a uniform color code - orange is used.

Extensibility

Dolezych is manufacturing lifting slings and roundslings of raw materials according to DIN EN 1492-1 and 2: polyester (PES), polyamide (PA) and polypropylene (PP).
As a matter of principle, all these three materials are thermally fixed and stretched, i.e. in addition to coloring and smoothing, which take place in high temperature, each of these materials is given its exactly set stretching figure which will neither be exceeded with respect to the applied lifting capacity nor surpassed, but also not lower in case of a break.
When the expansion is too high, the s.c. rubber band effect takes place, when too low – the most important damping properties of the woven fibre get lost, e.g. when dynamic loads take place following a hooked up and by drawing suddenly set free load. The DMT in



Eye slings
Stirrup slings
Endless web slings
Roundslings

Bochum, following their case-studies on this subject, have stated the high work potential of lifting slings as compared with other slinging equipment. However, it is of importance that because of different expansion figures, which result of the use of different materials, e.g. lifting slings of PES should not be used together with lifting slings of PP. In the worst case the load may be hanging inclined and may glide down. Also the simultaneous application of products made by different manufacturers may lead to problems connected with fastening, in case that partly not optimized textures of higher expansion will be used.
Roundslings, as compared with lifting ropes, represent at same lifting capacity and identical material a bit lower expansion figures, as a sling texture is more flexible than that of laid fibre alignment of roundslings.

Marking /labelling

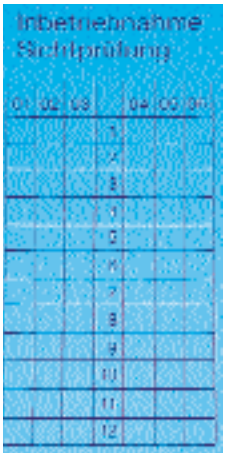
DoMark of woven lifting ropes

In addition to the standard marking, Dolezych supply on request DoMark which have an easily recognizable and univocal lifting capacity and type of material marking in figures and letters on each lifting sling, e.g. PES 3000 kg for a woven lifting sling of polyester of a lifting capacity of 3.000 kg. This marking is woven in for good and sewn on a large surface in a way that it can not get lost. This marking will remain well visible for a long time, even when applied under rough and very dirty conditions.

Eye slings
Stirrup slings
Endless web slings
Roundslings

DoDate – the data carrier - a supplementary label for lifting slings and roundslings

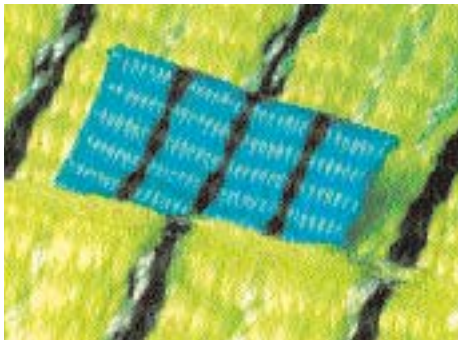
Dolezych made, with respect to labelling for the application under higher temperature ranges, a big step forwards, because DoDate keeps durably product related data, also under the influence of higher temperatures; no fusion, no loss of flexibility, no breaking, no roughing.
(on the blue drawing:) visual inspection at comissioning.



This supplementary label with a textile filler serves e.g. as data carrier for the internal documentation of the enterprise, when the time of commissioning resp. the date of the next visual inspection of product should be marked.

Doldent – the supplementary production code on lifting slings of polyester

Against addditional charges we supply



lifting belts with Doldent-label.
The Doldent labels on the lifting slings are changing year by year their color and by means of the number of stripes they indicate the production quarter (1 stripe for 1 quarter up to 4 stripes for 4 quarters). You can not strip off these labels, so they can not get lost and they can be any time identified. This Dolezych marking exceeds considerably the requirement of DIN EN 1492-1 for compulsory labels. Doldent is protected as a registered design.

DoPremium

With the lifting slings and roundslings of the Premium generation you have at your disposal products of top quality.

The DoPremium lifting sling weaving technique is of such a nature that it distinctly exceeds the safety factor required by the standard (ca sf 10 instead of 7) and additionally, when applied achieves better figures as regards pressure, edge stability and heat resistance.

The DoPremium roundsling in a quality hose which as regards its construction and thickness is comparable with a lifting sling. This means, as compared with standard roundslings : higher abrasion resistance, higher edge and pressure stabilization, as well as more transverse rigidity.

Three materials for lifting slings and roundslings ?

Dolezych is manufacturing woven lifting slings of polyester (PES), but also of polyamide (PA) or polypropylene (PP). Different materials are processed in order to meet the different requirements of practical application. PES, PA, PP differ not only physically or chemically, but also in the grip, in stability, in behaviour under abrasion, in pressure sensitivity or heat resistance. Let us advice you which material should be applied by you. According to standards polyester and polyamide may be applied at the temperature range of -40°C up to 100°C, polypropylene – between -40°C and 80°C. All these three materials are oil and decay resistant. Polyester is acid-resistant, polyamide – lye resistant however, it is worth mentioning that the different grades of resistance depend on the concentration of the chemicals, on temperature and the time of exposure. You should address Dolezych for advise in every instance.

Materialcode

In case of woven lifting slings, all the eye or loop reinforcements are color-marked according to the applied material: PES = blue · PA = green · PP = brown.
Woven lifting slings and roundslings meeting the DIN EN 1492-1+2 requirements are furnished with a lifting capacity label which informs of the lifting capacity of specific fastening modes, of the manufacturer, of material and date

of manufacturing.

WLL
(lifting capacity when lifting directly) 5,0 t
material: OA
length L1 1,0 m
year of production 2003
Dolezych Dortmund
Code No.EXAMPLE
CE according to EN 1492-1/2

PES = blue label
PA = green label
PP = brown label

Material

Dolezych, as lifting sling specialists, offers for all materials a comprehensive standard program of best qualities for various scopes of application. Due to the nature of PA, when wet, it has a by 10% smaller brittleness than dry. Dolezych take this into consideration already prior to manufacturing so, that all roundslings made of PA even when wet, obviously have a 100% lifting capacity (as mentioned on the label).

Eye slings
Stirrup slings
Endless web slings
Roundslings

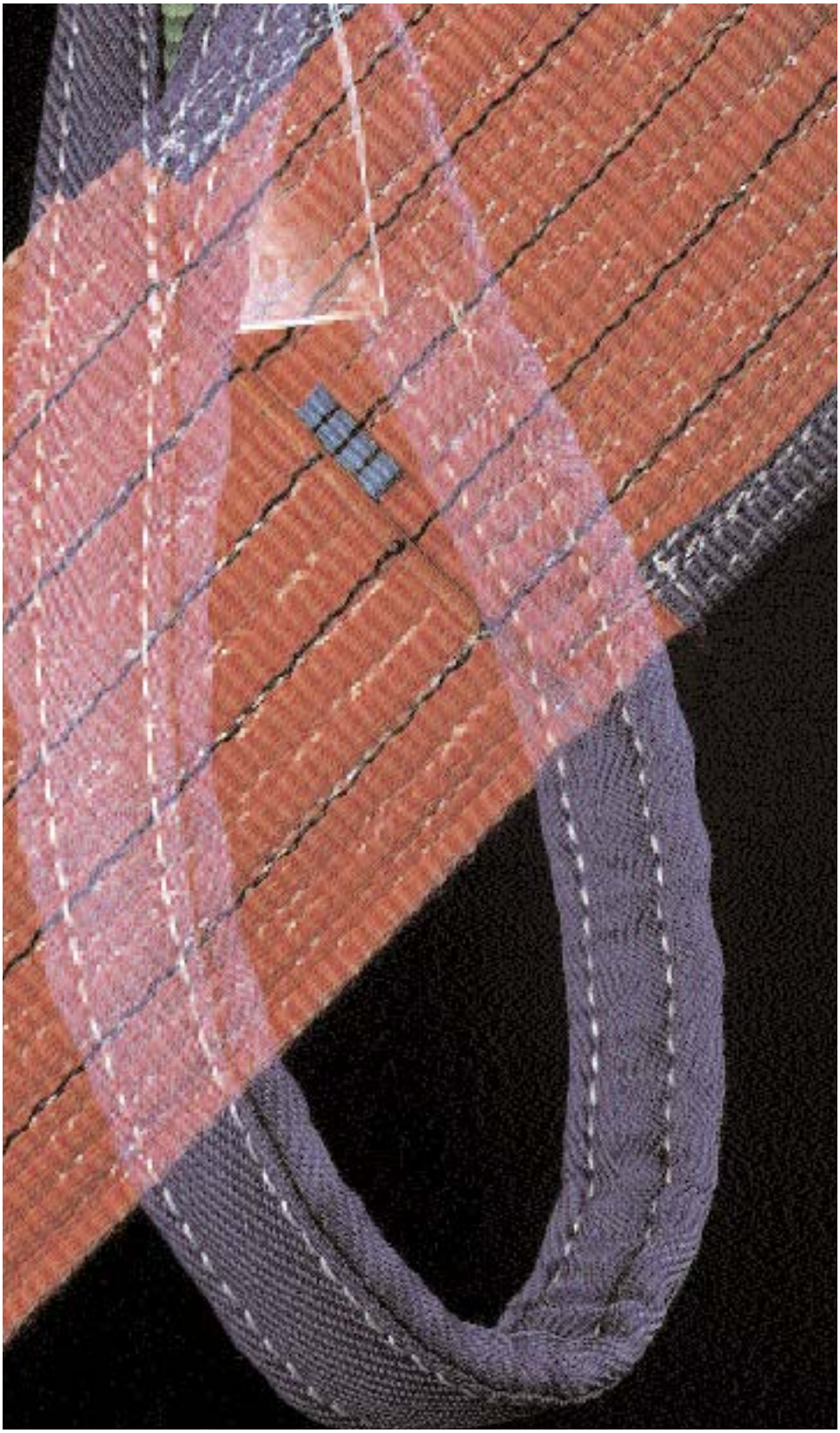
Dolezych use for polyamide lifting slings and roundslings the PA 6 material which meets the safety requirements. Dolezych are also testing new materials, e.g. Aramide (Kevlar). Do you have special requests or requirements? Please let us know them.

DoLex

According to DIN EN 1492: lifting slings and roundslings should be protect against sharp edges, friction and abrasion both at the load, as well as at the lifting device. The reason is: that lifting slings and roundslings consist of woven resp. laid texture which, because of its material properties, must be protected under specific lifting processes. In the last years, thanks to the R&D activity a range of "edge protection solutions" have been developed. DoLex edge protections are so stable that even loads with very sharp edges may be lifted.

Please find the basic information on DoLex on pages 32 – 41.

When choosing the adequate edge protection system, in case you will have questions about handling and the fastening technique – we are at your service!



Service manual for Dolezych lifting slings and roundslings

The Dolezych lifting slings and roundslings are according to BGR 500 (former UVV VBG 9a) slinging equipment and they are meeting all the requirements of DIN EN 1492-1 and 2.

According to these standards this are flat woven lifting slings resp. roundslings of chemical fibres for general use, especially for load lifting and transportation purposes.

The use is acceptable only by persons authorized and instructed by the enterprise. This service manual should be read carefully prior to the first use and to be observed during the use of Dolezych products.

It refers to the following Dolezych products:

- DoColor lifting slings of polyester (PES)
- DoForce 1, DoForce 2, DoPremium and DoWeb roundslings of polyester (PES)
- different Dolezych roundslings-/belt-suspension
- special execution of lifting slings and roundslings, e.g. of polyamide or polypropylene

At the same time we wish to refer to the following codes and technical regulations which are also in force:

- DIN EN 1492-1 lifting slings of chemical fibres
- DIN EN 1492-2 roundslings of chemical fibres
- BGR 500 handling of loading equipment during the operation of lifting
- ZH 1/324 instruction on the use of lifting slings of synthetic fibres
- ZH 1/103a instruction on safety measures for fastening personnel

Also other regulations must be observed, e.g. in case of transport of dangerous loads.

Choosing the Dolezych lifting slings and roundslings:

- Choose the slinging equipment for a planned transport so, that due to their type, length and method of fastening the load, they will suite a safe lifting of the load, without any undesirable moves. The wrong selection of lifting capacity and / or of type of fastening accessory may lead to a break!
- Lifting slings are not suitable for loads with sharp edges (except, when additionally edge protections or adequate layers of e.g. PU of a thickness of minimum 5 mm will be applied) or operations exceeding the temperature ranges of -40°C up to +100°C (PES and PA) resp. -40°C up to +80°C (PP).

Attention!
Lifting slings and roundslings should never be charged with a load weight exceeding their lifting capacity!

Initial operation:

Prior to the first use of the chosen lifting sling, its correct identification and measures should be checked. Never use a product which is damaged or missing its marking!

Identification of lifting slings and roundslings:

All Dolezych products are furnished with a label meeting the requirements of DIN EN 1492-1+2. The data on that label are as follows:

- WLL = lifting capacity when lifting directly, data in tons
- material: PES = polyester, blue label, PA = polyamide, green label, PP = polypropylene, brown label
- utilized length in meters (effective length)
- year of production
- manufacturer's logo DD
- Code of reference
- GS-marks and place of examination
- CE marks
- Applied valid standard
- Lifting capacity of fastening modes being in use

Not every type of fastening is suitable for any load fastening mode!

direct	bound	wound round	
LA = 1	LA = 0,8	LA = 2 (ß ≤ 7°)	LA = 1,4 (ß ≤ 45°) LA = 1 (ß ≤ 60°)
			(ß ≤ 45°) (ß ≤ 60°)
			(ß ≤ 45°) (ß ≤ 60°)

ß = the inclination angle (angle between the perpendiculars and the lifting sling)

LA = load hooking factor (relation to the lifting capacity at the direct hooking mode).
Example: the lifting capacity in the hooking mode - direct 10t (LA=1), lifting capacity in the hookiing mode - bound 8t (LA=0,8)

All lifting slings and roundslings of Dolezych are color coded: same lifting capacity = same sling color
Additionally on the DoForce roundslings the lifting capacity is distinctly printed. On the DoPremium and DoWeb roundslings data on lifting capacity are woven in for good. On request it is also possible to put in form of Dolezych marking system the data on lifting capacity on the slings of lifting slings. The conformity of Dolezych lifting slings and roundslings with the UE directions regarding machinery will be with every delivery confirmed by Dolezych in form of a certificate of conformity.

Lifting capacity*	color	Lifting capacity*	color
500 kg	pink	4 t	grey
	violet	5 t	red
	dark green		brown
2 t	green	8 t	blue
3 t	yellow	ab 10 t	orange

* in the direct fastening mode

Service manual for Dolezych lifting slings and roundslings

Transport of loads

Always observe the good practice of fastening: plan the fastening, lifting and placing on the truck prior to starting the lifting process.

1. Make preparations: fix the weight of the load and the centre of gravity. Read the accompanying documents, take care of the marked fastening points and on weight data of load or weigh the load by means of a crane scale (DoLast). Assessment of weight and of points of gravity by basing on a table of weights is not the appropriate solution. The crane hook may be put in the right position only when the point of gravity has been properly fixed !
2. The crane operator is to be informed of the load's weigth.
3. The crane hook is to be moved vertically over the point of gravity
4. Fastening of the load:

Attention: loads may glide or fall down when improperly fastened. A falling load may result in severe injuries or death.

The load is to be fastened in such a way that both a damage to the load, as well as to the fastening accessory will be avoided. In order to lift the load by avoiding its turning or falling down, the following conditions are to be observed:

a) in case of a single-leg suspension the point of hooking on must be located vertically over the point of gravity.
b) In case of double-tag suspension the points of hooking on must be placed symmetrically on both sides over the point of gravity.
c) In case of three or four line (multi-leg) suspensions, the points of hoo king must be arranged and placed symmetrically in one plane over the point of gravity.

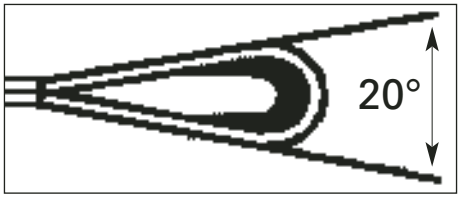
The ß angle of inclination must absolutely be observed: the bigger this angle of inclination, the smaller the lifting capacity. Angles of inclination exceeding 60° are not acceptable!

In case of three and four leg suspensions and an unbalanced load, one should base only on the lifting load of a double suspension, depending on the highest angle of inclination. When in case of double suspension lines different angles of inclination will appear, then one should base only on the lifting capacity of one line. One should always take into consideration the possibility of an unbalanced load when

- the load not elastic is (e.g. elements of concrete, castings, short girders etc.)
- the position of the point of gravity unknown is
- the load has an irregular surface
- different angles of inclination take place

Only suitable and sufficiently dimensioned points of fastening should be used.

Never catch under the binds! Lifting slings and roundslings should be fastened in such a way that they will carry the load with their full width.
The loops of eye slings should not be selected too short in order not to exceed 20° of the sling's opening angle when hooking with the crane hook. When the slings are too short, reduction should be undertaken by means of a blind.



Sling opening angle can not exceed 20°!

Anyway, never let the sling seams to be close to the reach of the hook or of other lifting devices. Avoid damaging the label. When for lifting the load more products will be used, they must be compatible, e.g.made of the same material (because of identical expansion properties).

Attention: Never undertake fastening in the hanging mode!
An exception from this principle is fastening of big size loads when shoving slinging equipment together and shifting the load will become impossible under a traverse of long, barshaped loads, when a skew position of the traverse is prevented by force and the load has been caught so, that it cannot bend excessively. A scew position of the traverse does not have to be prevented by force when by the nature of the load and by its surface or through its fastening, prevented will be the slipping out of the load or of parts of it.
For fastening loads by means of the "binding" method, only eye slings with reinforced end slings may be used. Lifting slings with a high transverse stiffness, e.g. with a hard coating, may be applied for this fastening method only in case when they are furnished with elements facilitating binding.

With the binding method, the lifting capacity makes only 80%!

When Dolezych lifting slings will be applied in a way, that not all the slings will be involved in carrying the load, than the unused slings should be hanged on a hanger. This will respectively decrease the hanging capacity to that of the used slings.

Service manual for Dolezych lifting slings and roundslings

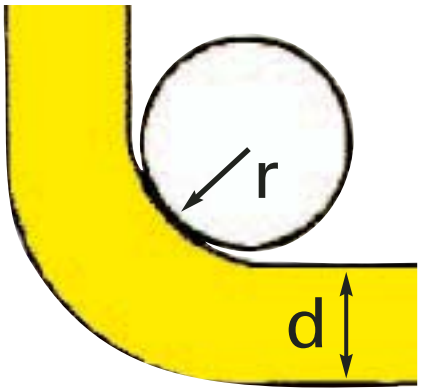
5. After fastening the load, the dangerous zone should be abandoned.
6. All persons participating in the process of fastening should be kept informed. Persons not participating but present in the transport (by crane) and unloading zone of danger should be warned.

Warning! To persons exposed to danger belong i.a. fastening personnel and other which are present in the transport zone.

7. The crane operator should be given univocal signals. Only one person should be entitled to give such signals.
8. Under lifting trials watch whether
   a) the load is unhooking or hooked well
   b) the load swings or is hanging properly
   c) all slings are charged equally.
9. skew hanging loads should be lowered and hooked anew.
10. Transport of the load by crane.
11. When transporting bulky elements and under heavy wind the load is to be lead by a line. In such a case one should go outside the zone of danger, e.g. on the side instead of in front of travelling cranes.
12. Seating the load according to instructions of loader.
13. Securing the load against overthrowing and breaking into pieces.
14. Removing from the load the slinging equipment.
15. The hooks of lifting equipment are to be fixed in the hanging ring.
16. When unused slinging equipment will be lifted, one should take care that they will not hook on the load.

Important application remarks and warnings:

- Avoid pulling or tearing.
- Do not try to remove the lifting sling or roundsling from the load, when the load is still hooked on.
- Never rub the lifting aid of textile with the load, never drag the lifting slings nor the roundslings on the ground or on a rough surface.
- Never let the load remain connected with the slinging equipment when this may lead to a damage.
- In case of loads with sharp edges or rough surfaces, textile slinging equipment may be applied only then, when the endangered places



will be protected. As sharp edge is existend when the edge radius r smaller than thickness t!
DoLex coatings protect lifting slings and roundslings against sharp edges. Distinguished should be DoLex lifting slings with a poured on firm coating and lifting slings, as well as roundslings with sliding DoLex profile hoses. The DoLex firm coating should be selected only in case when the load is immobilized in the lifting sling, i.e no relative motion takes place between the coating and the load. Therefore it does not suite for turning processes. In such cases should the use of DoLex hoses should be given preference.

Warning: the gliding on a sharp edge may even destroy the DoLex coating!

Protective PVC and PU protection-wrisbands or other equipment (e.g. impregnation) serve only as a protection against abrasion by rough surfaces and do not protect against sharp edges!

- Loads are not allowed to be applied on knotted or distorted lifting slings and roundslings
- Roundslings are not allowed to be extended through putting one into the other or knotting.
- Under separation, grinding or welding works, textile products are to be spark protected.

Cleaning:

Lifting slings and roundslings are to be cleaned with clean water with no chemical additives. Product which got wet during their use or following their cleaning, should be hanged and dried on fresh air. Under no circumstances they are allowed to be warmed up or in a different way force dried.

Storage

Prior to storing lifting slings and roundslings they should be examined for damages which might occur during their use. Damaged lifting slings and roundslings should not be stored. When unused, they should be stored on a shelve in a clean, dry and well ventilated environment and far from a source of heat, with no contact to chemicals, waste gases, corroding surfaces, direct solar radiation or other sources of ultra violet radiation.

The use of Dolezych lifting slings and roundslings in connection with chemicals:

Materials of which textile products have been manufactured (PES,AP,PP) differ not only physically (e.g. the grip, stability, behaviour under abrasion) but also by a differing resistance against chemical influences. Polyester is more acid resistant, polyamide – rather against many lyes. Polypropylene is resistant against many acids, but also highly resistant against many lyes.

Warning: all materials, under the influence of chemicals, depending on their concentration, on temperature and time of exposure, may be destroyed, or their lifting capacity may be drastically reduced!

Service manual for Dolezych lifting slings and roundslings

Definitely contact us – the manufacturers - for advice. When exposure of lifting slings and roundslings to chemicals is involved, you should immediately undertake cleaning with clean water or with an other appropriate remedy. At the same time work protection regulations have to be observed. Even harmless acid and lye solutions, when through concentrated through evaporation, may cause damages !

The use under various temperature ranges:
The Dolezych lifting slings and roundslings are suitable for the application under the following temperature ranges:
Polyester/polyamide:
-40°C up to +100°C,
Polypropylene:
-40°C up to +80°C.
These ranges of temperature may change depending on the chemical environment, therefore it is advisable to contact us in such situations for information. At temperatures below 0°C only dry slinging equipment may be used.

Regular examinations:
According to BGR 500 slinging equipment must be checked by an expert after the period of the latest one year. Use the Dolezych inspection service! We shall examine your lifting accessories either at the Dolezych Control-Center or at your plant, resp directly at the place of use. Depending on the conditions of use of the lifting equipment, the checks may become necessary in shorter than one year periods. This often refers e.g. to cases of extremely frequent use, of advanced wear, corrosion or heat influence or, when the experience at the plant indicates that it should be counted with a higher hazard of getting damaged. During the period of use, the user should undertake regular visual inspections aimed at detecting failures which might affect a lasting and safe use of the lifting sling. These inspections should also involve fitting elements, connecting parts and marking. In case of any doubts about the suitability for use, or when the necessary marking (label or a tag) will get lost, as well as after cases of damage or after any special occurrences which might influence the lifting capacity, the lifting aid should be disengaged for the purpose of being examined by an expert.

Examples of failures and damages which are limiting the lasting and reliable use are: places of abrasion on the surface, longitudinal and transversal cuts, cuts or places of abrasion on the edges of lifting slings, on meshes or slings, chemical influences, damaged or deformed fitting elements, cuts or places of abrasion on the roundsling hose, damaged abrasion or edge protection hoses.

Dolezych repair service

When failures appear on your slinging equipment, they can be repaired by a competent Dolezych specialist. This will help you to decrease your expenses. Never try to undertake repairs on slinging equipment yourself !

Readiness for disposal:
Dolezych lifting slings and roundslings are not allowed to be used (readiness for disposal), when:

- breaks and cuts will appear in more than 10% of texture section
- damages to carrying seams resp. to the protective hose or its stitching
- damage to the carrying fibre layer (a repair it is out of question)
- deformation due to heat influence (abrasion, radiation)
- damages resulting of the influence of aggressive materials
- deformations, cracks, breaks or other types of damage to elements of fittings
- missing or illegible labelling

General danger reference:

During lifting process the person under or close to the load is endangered. As manufacturers, we have to inform you that there are remaining risks in handling lifting equipment - caused by the fact that the connection between the lifting appliance and the load is not reliable or that the load is swinging after lifting and endange the loader. Falling loads compromise goods and persons.

As user take care that suitable training measures are chosen for good education of your staff of loaders and crane-operators.
Several times a year Dolezych organize the well-known workshops"Dortmund-Seminare" for all who are responsible for lifting equipment and load safety.
Please call us by phone!
BQH Sicherheitstraining
(safety course)
Ph. 00 49 231 / 82 75 98

Double-layer eye slings

DoColor

Eye slings of Dolezych

Are light and handy. The slings are reinforced by coloured and extremely abrasion resistant fabric. The woven sling reinforcement does not swell when wet, this is the reason why we do not use leather.

There are two kinds of eyes, differentiated by sewing technic.

One-layer slings are serial produced with twisted and inversed eyes (by 90°) and double layer slings are produced wih reinforced eyes based on webbing width.
These standard types of eyes have proofed oneself during the use in daily practice.

We also producing eyes with special dimensions - in regard to your crane-hook.

In regard to our standard production we supply following eye-bearing-areas:

Up to 65 mm webbing sling width:
1/2 webbing width.
Starting with 75 mm webbing sling:
1/3 webbing width.
The exact length and width of eyes are mentioned in our tables.

DoColor eye slings, 2 layers, type A

article-No.	lifting capacity in kg single	lifting capacity in kg double	webbing width x thickness mm	eye length mm	eye width mm	min. length of webbing mm	1 meter price EUR	any add. meter price EUR
0561 9602	1000	2000	30 x 7	200	15	850	10,90	3,50
0561 9652	1000	2000	50 x 6	200	25	850	10,90	3,50
0561 9622	1500	3000	65 x 6	250	35	1150	12,00	5,20
0561 9752	2000	4000	60 x 7	300	30	1300	16,40	6,60
0561 9762	2000	4000	75 x 6	300	25	1300	16,40	6,60
0561 9782	3000	6000	90 x 7	350	30	1500	26,60	9,80
0561 9792	3000	6000	140 x 6	350	50	1600	38,10	13,50
0561 9852	4000	8000	120 x 7	425	40	1600	41,40	14,60
0562 0002	5000	10000	150 x 7	500	50	1900	55,40	17,50
0562 0102	6000	12000	180 x 7	550	60	2100	67,20	27,10
0562 0202	8000	16000	240 x 7	600	80	2300	81,00	31,75
0562 0302	10000	20000	300 x 10	750	100	2500	102,00	42,30

Typ A belt based sling with standard reinforcement regular double

pict. 1 one piece ARS

pict. 2 double piece ARS

article No.	for lifting slings up to webbing width pict. 1 u. 2	price per 1 m EUR
5500 0040	30 mm	3,40
5500 0060	50 mm	3,70
5500 0080	60-75 mm	5,10
5500 0100	90 mm	5,65
5500 0160	120-150 mm	11,15
5500 0180	180 mm	14,65
5500 0200	200 mm	18,35
5500 0240	240 mm	28,30
5500 0300	300 mm	43,40

PU protection hoses

pict. 1 one piece ARS

pict. 2 double piece ARS

article No.	for lifting slings up to webbing width pict. 1 u. 2	price per 1 m EUR
5500 2040	30 mm	4,80
5500 2065	50-60 mm	7,20
5500 2080	65-75 mm	9,45
5500 2100	90 mm	10,60
5500 2120	120 mm	12,30
5500 2160	140-150 mm	13,30
5500 2180	160 mm	15,00
5500 2250	240 mm	27,00
5500 2300	300 mm	30,00

Double-layer eye slings

DoColor

Types of available eyes, recommended by DIN EN 1492-1

one sided inlaid eye on 1/2 width of webbing (DoColor eyesling, type A/B for webbing up to 65 mm width of sling)

double-sided inlaid eye on a 1/2 width of webbing (DoColor eyesling, type A/B for webbing up to 65 mm width of sling)

inlaid eye on 1/3 width of webbing (DoColor eyesling, type A/B starting with 75 mm width)

simply twisted eye (DoColor eyesling, type C)

flat eye (available on request)

An opening angle of eye is allowed up to max. 20°. This is guaranteed when the lengthof eyes meets the four fold (or more) bearing area of crane hook!

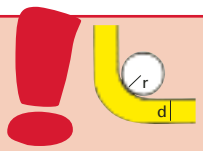
Typ B belt based eye with full reinforcement

	article No.	lifting capacity in kg single	lifting capacity in kg double	webbing width x thickness mm	eye length mm	eye width mm	min. length of webbing mm	1 meter price EUR	any add. meter price EUR
	0561 9604	1000	2000	30 x 7	200	15	850	13,10	3,90
	0561 9654	1000	2000	50 x 6	200	25	850	13,10	3,90
	0561 9624	1500	3000	65 x 6	250	35	1150	14,10	6,20
	0561 9754	2000	4000	60 x 7	300	30	1300	19,70	7,90
	0561 9764	2000	4000	75 x 6	300	25	1300	19,70	7,90
	0561 9784	3000	6000	90 x 7	350	30	1500	31,90	11,80
	0561 9794	3000	6000	140 x 6	350	50	1600	44,30	15,50
	0561 9854	4000	8000	120 x 7	425	40	1600	47,60	16,80
	0562 0004	5000	10000	150 x 7	500	50	1900	63,70	20,20
	0562 0104	6000	12000	180 x 7	550	60	2100	77,30	31,20
	0562 0204	8000	16000	240 x 7	600	80	2300	97,20	38,10
	0562 0304	10000	20000	300 x 10	750	100	2500	122,40	51,00

article No.	for lifting slings up to the webbing width pict. 1 & 2	price per1m EUR
5500 0040	30 mm	3,40
5500 0060	50 mm	3,70
5500 0080	60-75 mm	5,10
5500 0100	90 mm	5,65
5500 0160	120-150 mm	11,15
5500 0180	180 mm	14,65
5500 0200	200 mm	18,35
5500 0240	240 mm	28,30
5500 0300	300 mm	43,40

PU protection hoses

article No	for lifting slings up to the webbing width pict. 1 & 2	price per1m EUR
5500 2040	30 mm	4,80
5500 2065	50-60 mm	7,20
5500 2080	65-75 mm	9,45
5500 2100	90 mm	10,60
5500 2120	120 mm	12,30
5500 2160	140-150 mm	13,30
5500 2180	160 mm	15,00
5500 2250	240 mm	27,00
5500 2300	300 mm	30,00



Protection against sharp edges

...everything about wear and edge protection, i.e. protective hoses firm coatings, impregnation and texture construction is to be found on pages 32-41.

DoColor

Typ C reversible eye
with standard reinforcement

	article No.	lifting capacity in kg single	double	webbng width x thickness mm	eye length mm	eye width mm	min. length of webbing mm	1 meter price EUR	any add. meter price EUR
	0531 9002	500	1000	30 x 3,5	200	15	850	16,62	2,85
	0531 9082	500	1000	50 x 3,0	200	25	850	16,62	2,85
	0531 9202	1000	2000	60 x 3,5	300	30	1300	23,26	4,35
	0531 9222	1000	2000	75 x 3,0	300	25	1300	23,26	4,35
	0531 9282	1500	3000	90 x 3,5	350	30	1500	37,38	8,35
	0531 9292	1500	3000	140 x 3,0	425	50	1750	37,38	8,35
	0531 9402	2000	4000	120 x 3,5	425	40	1750	64,93	11,05
	0531 9512	3000	6000	180 x 3,5	550	60	2100	76,90	16,65

pict. 1 single ARS piece

pict. 2 double ARS pieces

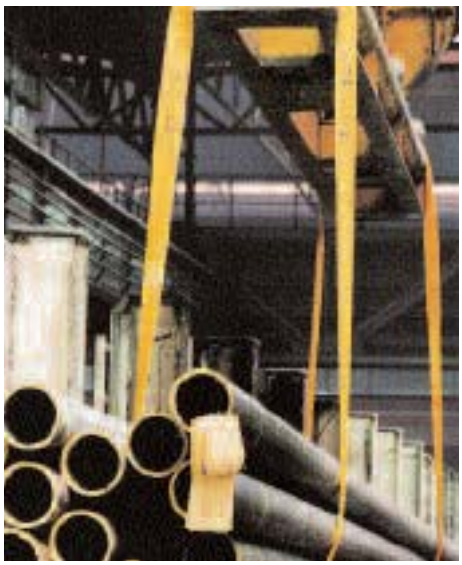
article No.	for lifting slings up to webbing width pict. 1 & 2	Price per 1 m EUR
5500 0040	30 mm	3,40
5500 0060	50 mm	3,70
5500 0080	60-75 mm	5,10
5500 0100	90 mm	5,65
5500 0160	120-150 mm	11,15
5500 0180	180 mm	14,65
5500 0200	200 mm	18,35
5500 0240	240 mm	28,30
5500 0300	300 mm	43,40

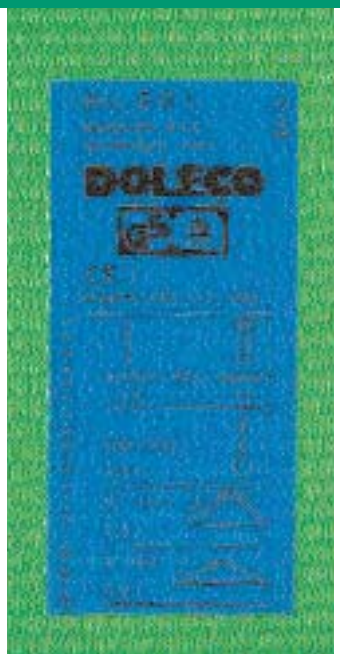
PU protection hoses

pict. 1 single ARS piece

pict. 2 double ARS pieces

article No.	for lifting slings up to webbing width pict. 1 & 2	price per 1 m EUR
5500 2040	30 mm	4,80
5500 2065	50-60 mm	7,20
5500 2080	65-75 mm	9,45
5500 2100	90 mm	10,60
5500 2120	120 mm	12,30
5500 2160	140-150 mm	13,30
5500 2180	160 mm	15,00
5500 2250	240 mm	27,00
5500 2300	300 mm	30,00





article No. 0599 0055
price per piece EUR 0,75

Your benefit:

...an additional lable marking all lifting slings, roundslings and lashing belts, which can not be torn out or get lost. In case the regular **label will become illegible** or will get lost due to rough handling, the DoMark-Plus label takes over the function of marking.
The lashing belt, lifting sling, roundsling should not be disposed!

Innovative: DoPremium!

... longer life due to increased safety factor
... higher temperature resistance up to 150°C
... better abrasion resistance due optimum texture construction
... higher pressure resistance by continious loading

Double-layer eye slings

DoPremium

DoPremium roundslings are a first class product for your safety.

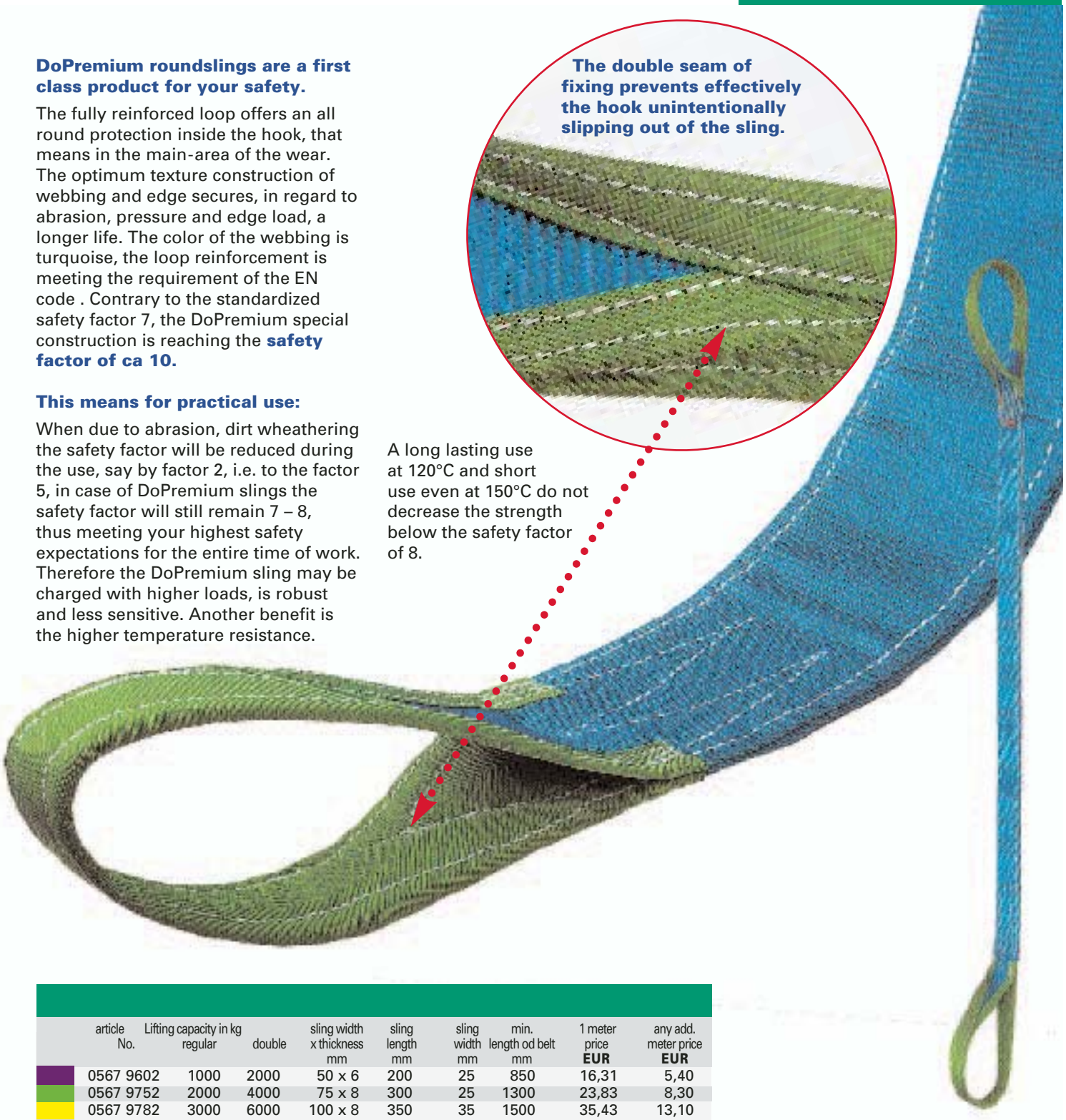
The fully reinforced loop offers an all round protection inside the hook, that means in the main-area of the wear. The optimum texture construction of webbing and edge secures, in regard to abrasion, pressure and edge load, a longer life. The color of the webbing is turquoise, the loop reinforcement is meeting the requirement of the EN code . Contrary to the standardized safety factor 7, the DoPremium special construction is reaching the **safety factor of ca 10.**

This means for practical use:

When due to abrasion, dirt wheathering the safety factor will be reduced during the use, say by factor 2, i.e. to the factor 5, in case of DoPremium slings the safety factor will still remain 7 – 8, thus meeting your highest safety expectations for the entire time of work. Therefore the DoPremium sling may be charged with higher loads, is robust and less sensitive. Another benefit is the higher temperature resistance.

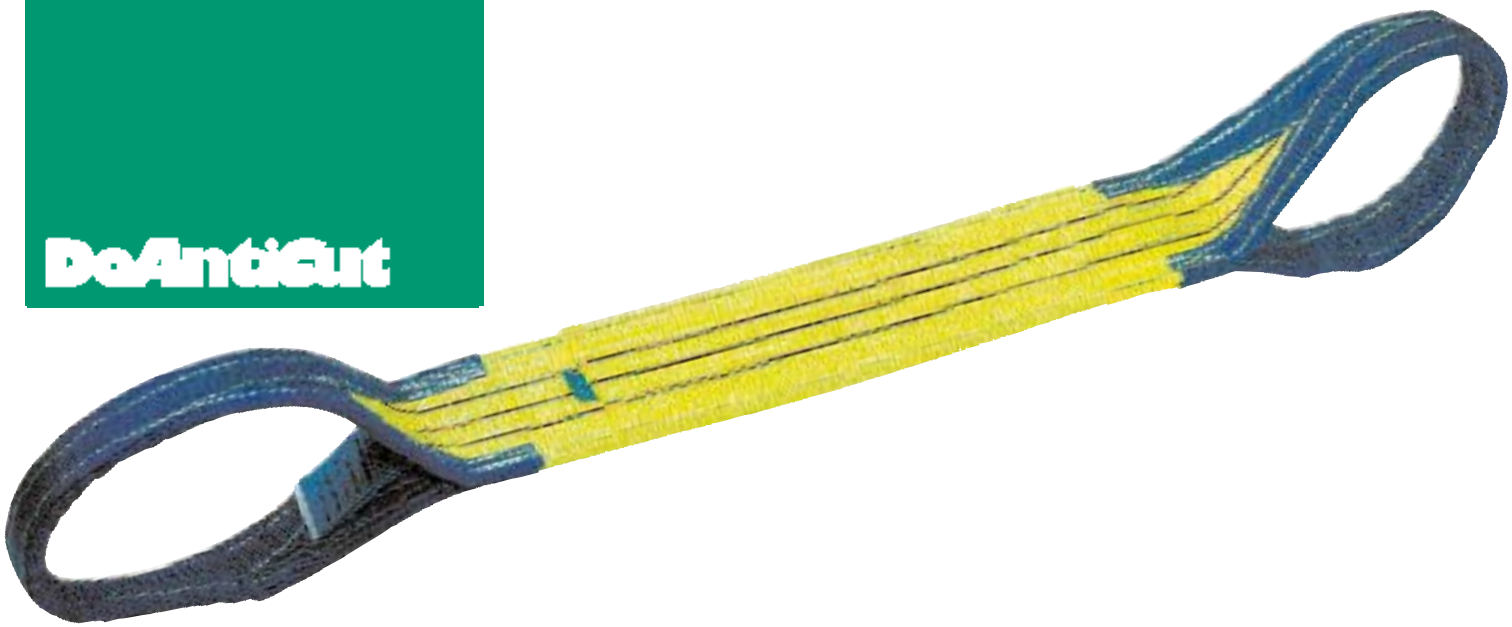
The double seam of fixing prevents effectively the hook unintentionally slipping out of the sling.

A long lasting use at 120°C and short use even at 150°C do not decrease the strength below the safety factor of 8.



	article No.	Lifting capacity in kg regular	double	sling width x thickness mm	sling length mm	sling width mm	min. length od belt mm	1 meter price EUR	any add. meter price EUR
	0567 9602	1000	2000	50 x 6	200	25	850	16,31	5,40
	0567 9752	2000	4000	75 x 8	300	25	1300	23,83	8,30
	0567 9782	3000	6000	100 x 8	350	35	1500	35,43	13,10
	0567 9852	4000	8000	125 x 8	425	45	1600	52,00	19,10
	0567 0002	5000	10000	150 x10	500	50	1900	70,76	23,10

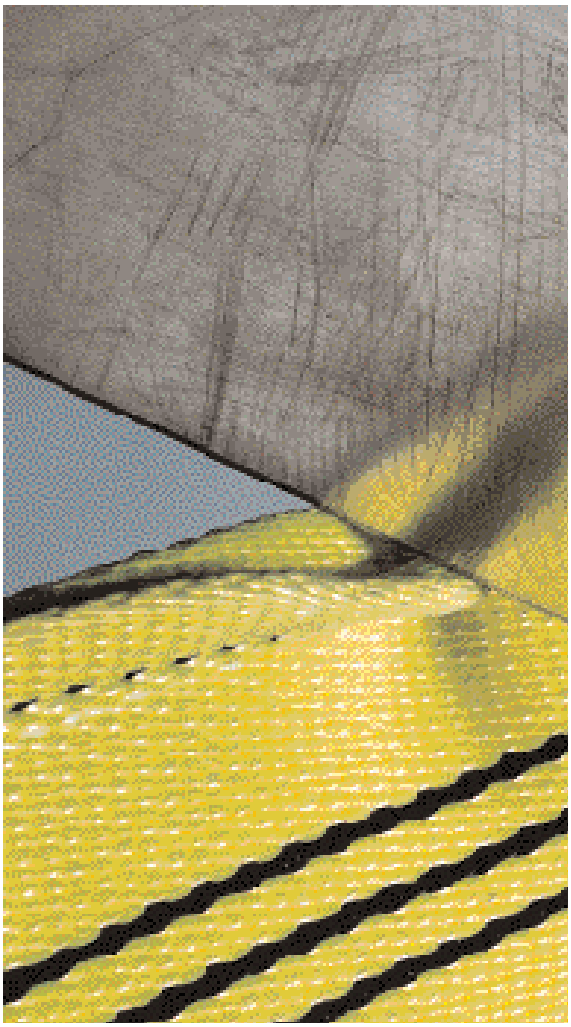
DoAntiCut

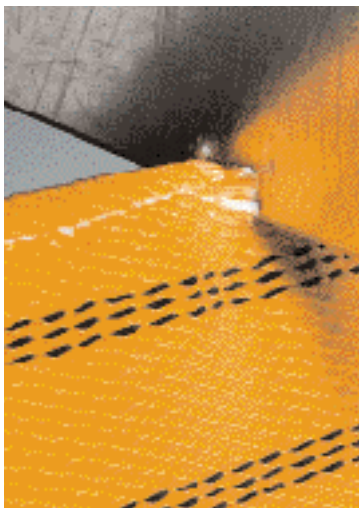


Your benefits

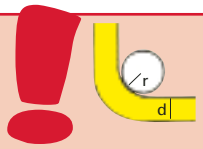
- The DoAntiCut selvage better protects the webbing against side damages.
- The V-shape of the selvage absorbs loads from the side.
- The selvage serves as an elastic buffer between the edge and the carrying webbing.
- In order to resist all the loads, e.g. pulling below the cargo, grinding over grounds or hooking into not fully barb free crane hooks, the loops are standardly manufactured with extra reinforced loops
- DoAntiCut eyeslings are manufactured in luminous "Eurocolours"so they are better visible even under bad light conditions and e.g.it is easy to diffentiate by their lifting capacity.

	article No.	lifting capacity in kg single	double	sling eye x thckness mm	webbing length mm	webbing width mm	min. length mm	1 meter price EUR	any add. meter price EUR
	0564 9752	2000	4000	60 x 7	300	30	1300	23,15	8,05
	0564 9782	3000	6000	90 x 7	350	30	1500	34,40	12,75
	0564 9852	4000	8000	120 x 7	425	40	1600	50,50	18,55
	0564 0002	5000	10000	150 x 7	500	50	1900	68,75	22,40





Pictures on the right side: this is the view showing the results of damaging a regular texture edge and of sling surface. The sling may be getting torn from the edge on.



Protection against sharp edges

...everything about wear and edge protection, i.e. protective hoses firm coatings, impregnation and texture construction is to be found on pages 32-41.

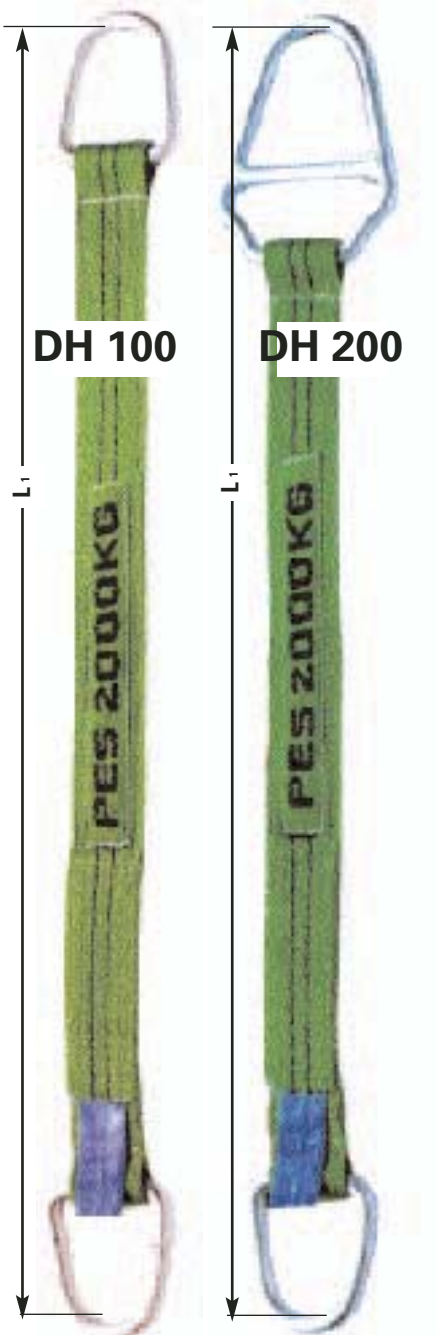
1-layer + 2-layer stirrup slings

DoColor

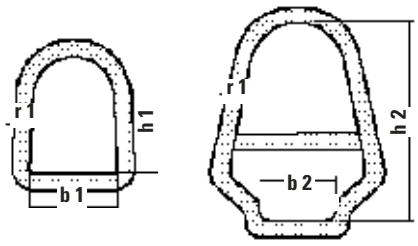
Take care that the welds of the bows are positioned edgewise!

Your benefits:

- to be applied as an alternative to an eye slings when the bearing width of the loops exceeds the dimensions of the crane hook – steel bow require less place in the crane hook
- suitable particularly for application with traverses, because the steel bows are used in the traverse hook sector of main wear
- with the bows of stainless steel they are suitable also for pickling purposes (material, at least 1.4301)
- for bigger crane hooks, special bows may be available
- in the bound – fastening mode, protective properties especially with DH 200 because the sling carries with its full width



lifting capacity kg	DH 100 ø of hanger r1 mm	height h1 mm	width b1 mm	DH 200 ø of hanger r1 mm	height h2 mm	width b2 mm
1000	13	80	60	13	145	100
2000	16	90	80	16	165	120
3000	20	110	100	20	195	150
4000	22	130	130	22	230	185
5000	26	160	160	26	295	225
6000	30	210	220	30	325	295
8000	32	210	270	32	330	345
10000	36	278	300	36	428	430

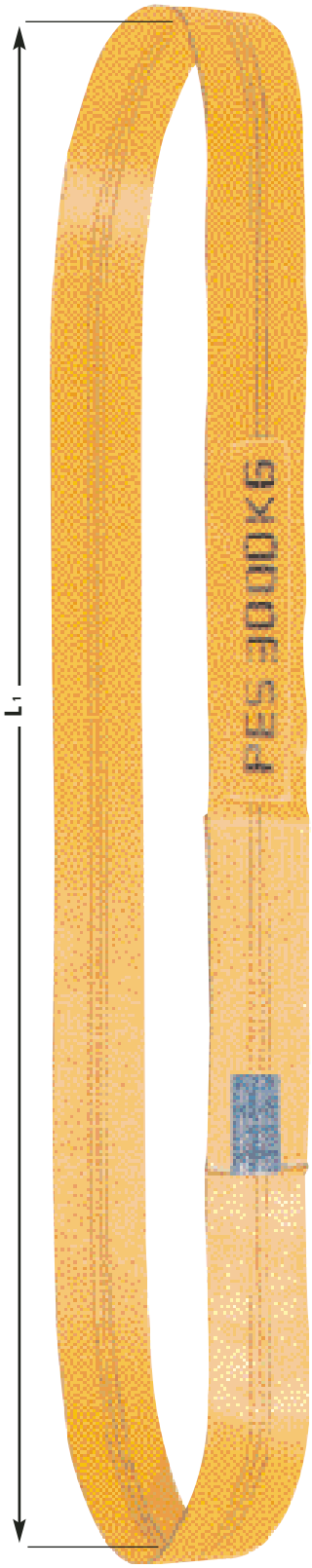


The lifting stirrup slings are everlasting. For changing applications the practical DH 200 combined belt should be used

	DH 100 article No.	DH 200 Article No	lifting capacity in kg single	lifting capacity in kg double	belt width x thickness mm	min. length of belt L1 mm	DH 100 price per 1 meter EUR	DH 200 price per 1 meter EUR	any add. meter price EUR
	0511 7002	0521 7002	500	1000	30 x 3,5	650	32,00	66,35	3,25
	0511 7102	0521 7102	500	1000	50 x 3,0	650	32,00	66,35	3,25
	0511 7202	0521 7202	1000	2000	60 x 3,5	600	52,05	72,10	5,05
	0511 7252	0521 7252	1000	2000	75 x 3,0	900	52,05	72,10	5,05
	0511 7302	0521 7302	1500	3000	90 x 3,5	1100	84,85	112,75	11,85
	0511 7352	0521 7352	1500	3000	140 x 3,0	1400	107,30	130,65	10,20
	0511 7402	0521 7402	2000	4000	120 x 3,5	1400	110,55	149,65	16,60
	0511 7452	0521 7452	2000	4000	150 x 3,0	1500	154,55	213,70	17,15
	0511 7602	0521 7602	3000	6000	180 x 3,5	1650	200,85	256,50	34,15

	DH 100 article No.	DH 200 article No.	lifting capacity in kg single	lifting capacity in kg double	belt width x thickness mm	min. length of belt L1 mm	DH 100 price per 1 meter EUR	DH 200 price per 1 meter EUR	any add. meter price EUR
	0511 8002	0521 8002	1000	2000	30 x 7	650	29,10	40,05	4,20
	0511 8102	0521 8102	1000	2000	50 x 6	650	29,10	40,05	4,20
	0511 8202	0521 8202	2000	4000	60 x 7	900	39,25	50,60	6,35
	0511 8252	0521 8252	2000	4000	75 x 6	900	39,25	50,60	6,35
	0511 8302	0521 8302	3000	6000	90 x 7	1100	59,95	74,00	10,30
	0511 8352	0521 8352	3000	6000	140 x 6	1400	104,30	125,60	17,70
	0511 8402	0521 8402	4000	8000	120 x 7	1400	106,65	122,45	14,50
	0511 8502	0521 8502	5000	10000	150 x 7	1500	131,15	165,95	18,45
	0511 8602	0521 8602	6000	12000	180 x 7	1650	181,35	223,40	28,25
	0511 8802	0521 8802	8000	16000	240 x 7	1650	318,10	379,20	36,85
	0511 8902	0511 8902	10000	20000	300 x 10	2000	630,95	827,25	85,75

DoColor



	article No.	lifting capacity in kg single	lifting capacity in kg double	webbing width x -thickness mm	min. length of belt L1 mm	length **, L1= 1 m price per endless web sling EUR	lfd. m** L1= 0,5 m price per any add. meter EUR
	0542 1902	500	1000	25 x 4,0	350	6,10	1,60
	0542 2102	1000	2000	30 x 3,5	400	8,45	1,85
	0542 2152	1500	3000	65 x 3,0	700	9,45	2,25
	0542 2216	2000	4000	60 x 3,5	700	11,45	2,65
	0542 2262	2000	4000	75 x 3,0	750	11,45	2,65
	0542 2282	3000	6000	90 x 3,5	900	18,45	3,70
	0542 2272	3000	6000	140 x 3,0	1000	18,45	3,70

** Länge = L1 = Nutzlänge
L1 x 2 = Umfanglänge

	article No.	lifting capacity in kg single	lifting capacity in kg double	webbing width x -thickness mm	min. length of belt L1 mm	length **, L1= 1 m price per endless web sling EUR	lfd. m** L1= 0,5 m price per any add. meter EUR
	0582 2902	1000	2000	25 x 8	400	13,90	3,55
	0582 3002	1500	3000	35 x 6	500	15,30	4,20
	0582 3052	2000	4000	30 x 7	500	16,90	4,85
	0582 3092	3000	6000	65 x 6	800	20,45	6,35
	0582 3102	4000	8000	60 x 7	800	22,85	6,80
	0582 3152	4000	8000	75 x 6	900	22,85	6,80
	0582 3312	5000	10000	100 x 6	1000	40,90	10,00
	0582 3352	6000	12000	90 x 7	900	51,35	13,95
	0582 3382	6000	12000	140 x 6	1000	51,35	19,25

Dolezych endless webbing slings are excellently suitable for the use with traverses in the hanging and bound mode. Because of the, as compared with the eye slings, simple stitching, the endless web slings belong to less expensive textile lifting belts.
Benefits of endless web slings

- always two (both 1 and 2-layer) belts are carrying.
- Higher lifting capacities possible, as compared with eye slings or stirrup slings.
- Reasonable price.

The endless webbing slings are often applied in the pre-slung process. They are meeting the DIN EN 1492-1 standard and in the pre-slung process (pls. See BGR 500, pos.2.8) are allowed to carry by 40% heavier loads.

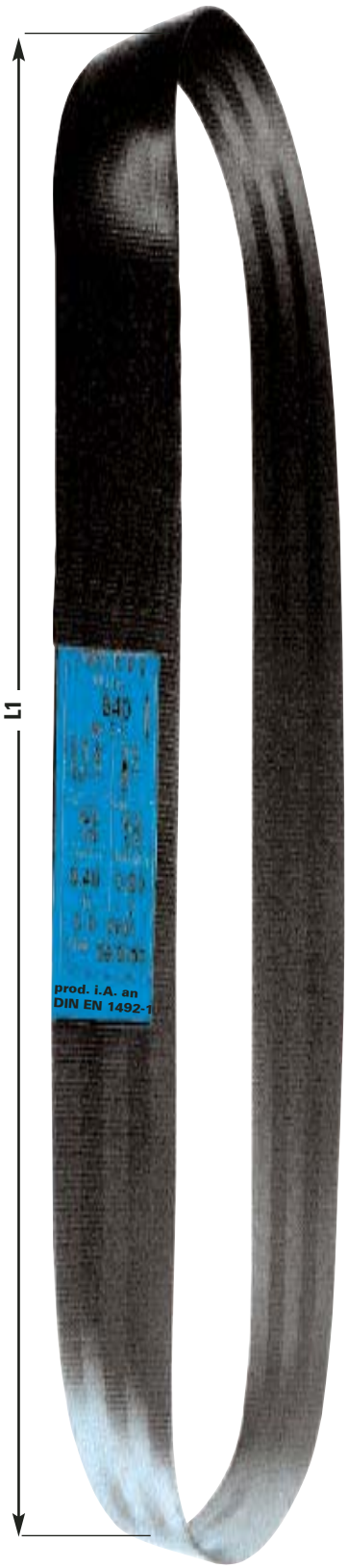
Ask our technical advisors about the ASG and one-way belts resp. about the pre-slung process.

DoColor

article No. L_1 = 0,5m	lifting capacity in kg single	lifting capacity in kg double	theoretical lifting capacity acc. to standard in kg single	theoretical lifting capacity acc. to standard in kg double	length, L1 = 0,5m price per endless web sling **EUR**	price per any add. meter **EUR**
0543 0482	750	1500	540	1080	1,75	0,55
0543 0492	1000	2000	700	1400	2,25	0,90
0543 0502	1400	2000	1000	2000	4,00	1,00

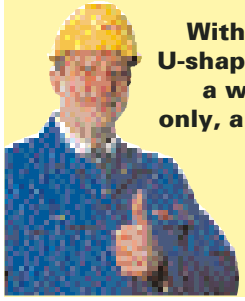
The ASG endless webbing slings are mainly used in the wooden and prefabricated house building as one way webbings. They are lifting only **once** and then – they are cut off. This is the reason why these ASG endless web slings according to BGR 500, pos.2,8 may carry by 40% higher loads.
This results of the earlier UVV 18,4 (preslung process). The usual safety factor of lifting belts (SF 7) is decreased in this case till SF 5. In the label the lifting capacity of SF 7 is based on DIN EN 1492-1. Dolezych, for safety reasons, put on the label additionally SF 5.
In the table you will find a comparison of the theoretical lifting capacity with SF7.

ASG endless web slings are available ex stock in the standard length of L1 = 0,4 m, 0,41 m and 0,5 m!



Eye slings + stirrup slings of 4 layers for handling heavy loads

DoColor



With 2 lifting belts – U-shape application of a width of 300 mm only, a load of 80 tons may be lifted!

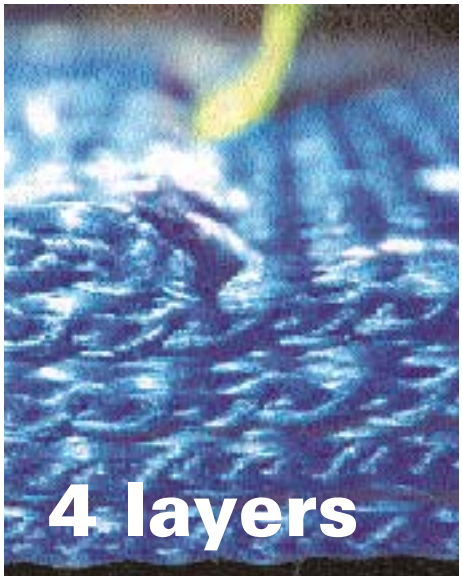
Your benefits:

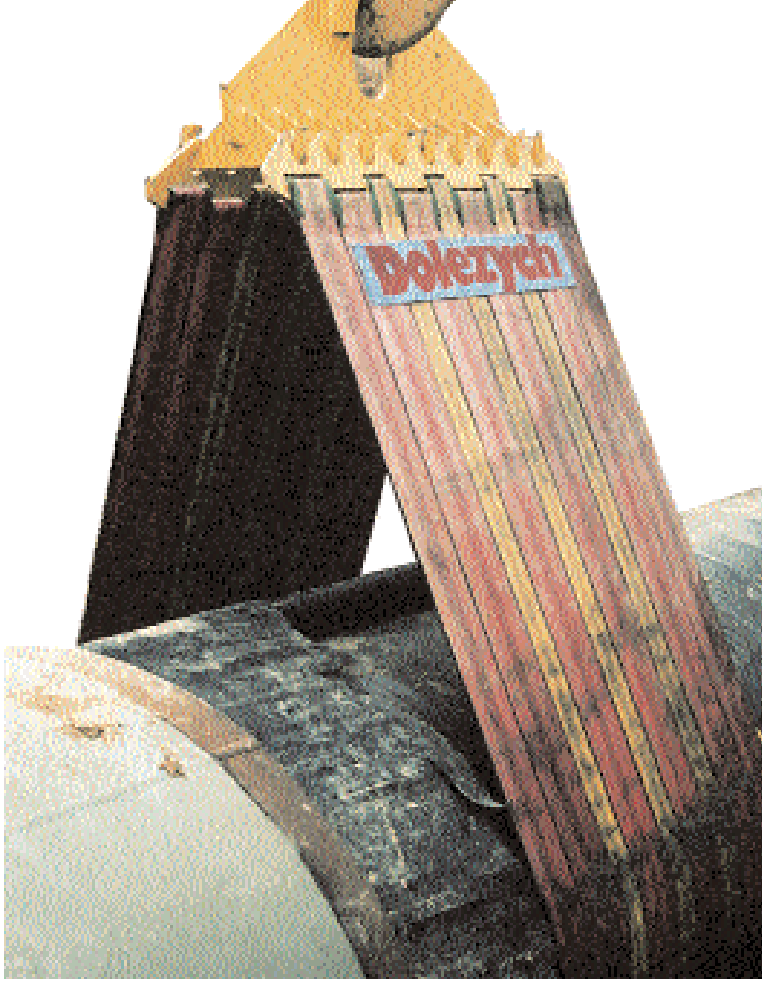
- For heavy loads of up to 40 t (the double lifting capacity compared at the same width of double layer eye slings and stirrup slings)
- In case of scarce place - may be applied under/on the load, as the belt width, as compared with 2-layer belts, with the same lifting capacity, by half smaller is.

DoFix - the fixed eye. In order to shift the webbing under the load easier Dolezych is manufacturing webbing slings with special eye-sewing-technics. Do not hesitate to request!

	article No.	lifting capacity in kg single	lifting capacity in kg double	webbing width x thickness mm	sling length mm	sling width mm	min. length of belt mm	1 meter price EUR	any add. meter price EUR
	0559 0302	2000	4000	30 x 14	30	200	1000	21,50	7,10
	0559 0652	3000	6000	65 x 12	35	300	1500	23,85	8,55
	0559 0602	4000	8000	60 x 14	30	300	1500	31,40	13,10
	0559 0852	5000	10000	100 x 12	45	350	2000	39,55	15,30
	0559 0902	6000	12000	90 x 14	45	350	2000	46,80	17,30
	0559 1202	8000	16000	120 x 14	60	425	2000	68,70	25,25
	0559 1502	10000	20000	150 x 14	75	500	2500	99,10	32,25
	0559 1802	12000	24000	180 x 14	90	550	2500	130,90	51,60
	0559 2402	16000	32000	240 x 14	120	600	3000	166,60	65,30
	0559 3002	20000	40000	300 x 20	150	625	3000	262,25	119,05

	DH 100 article No.	DH 200 article No	lifting capacity in kg single	lifting capacity in kg double	webbing width x thickness mm	min. length of belt, L1 mm	DH 100 1 meter price EUR	DH 200 1 meter price EUR	any add. meter price EUR
	0513 0302	0523 0302	2000	4000	50 x 12	650	47,95	66,10	6,95
	0513 0652	0523 0652	3000	6000	65 x 12	900	57,95	75,35	8,55
	0513 0602	0523 0602	4000	8000	60 x 14	900	64,80	83,45	10,45
	0513 0852	0523 0852	5000	10000	100 x 12	1100	82,70	103,25	14,50
	0513 0902	0523 0902	6000	12000	90 x 14	1100	98,90	122,10	16,95
	0513 1202	0523 1202	8000	16000	120 x 14	1400	176,00	202,10	23,95
	0513 1502	0523 1502	10000	20000	150 x 14	1500	216,40	273,70	30,45
	0513 1802	0523 1802	12000	24000	180 x 14	1500	299,25	368,60	46,60
	0513 2402	0523 2402	16000	32000	240 x 14	1650	524,85	625,65	60,85
	0513 3002	0523 3002	20000	40000	300 x 20	2000	1.041,10	1.364,95	141,50





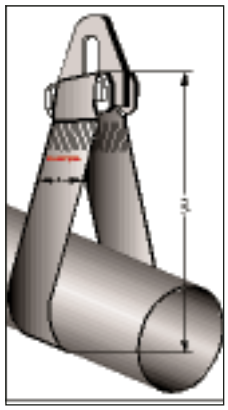
Pipeline lifting belt mats

DeColor

Pipeline lifting belt mats are force bunches for pipe laying. They consist of polyester webbing mats, each with 2 stitched eye- traverses and the attached, separate hook traverse. They are manufactured according to the standard on lifting belts, DIN EN 1492-1.

Essential as lifting device when pipe-line laying requires high lifting capacities and large support surfaces. The lifting capacity of a mat is 48 t at a lifting surface of 900 mm width.

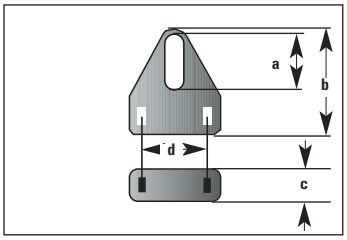
Measurements for eye- and hooktraverse on request.

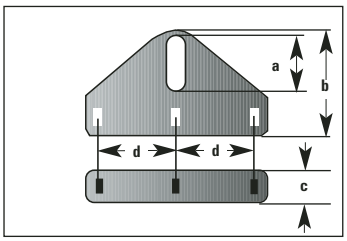


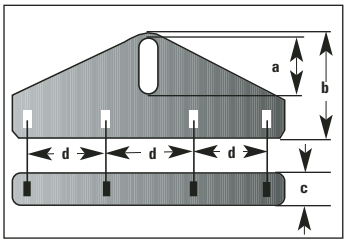
... our “force bunch”
... up to 48t of lifting capacity
... simple, time saving handling

article No.	lifting capacity kg	width mm	price per 2 m EUR	price for any add. meter EUR
0511 9302	16.000	300	990,00	48,00
0511 9602	32.000	600	1.248,00	94,00
0511 9902	48.000	900	1.826,00	229,00

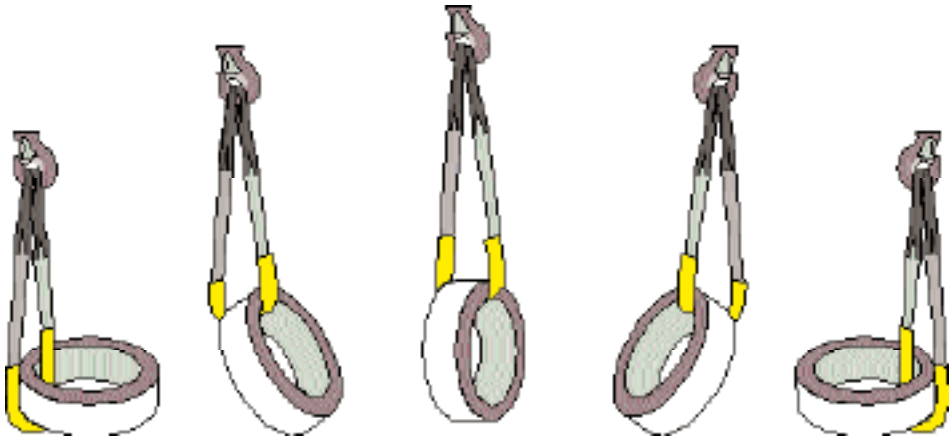
Please contact us for information on traverse dimensions!





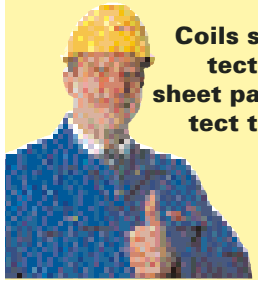


Edge protection profile hoses



What means sharp edge ?

An edge is sharp when the load's edge radius is smaller than the lifting belt, rope or lifting chain diameter (thickness) (d).



Coils should be protected by a metal sheet package to protect the very sharp inner edge of attack !

Why edge protection?

Because the webbing is to be better protected against dangerous texture cuts and / or the transported load needs protection. Both the profile hoses and the firm coatings of lifting belts are made of polyurethane.

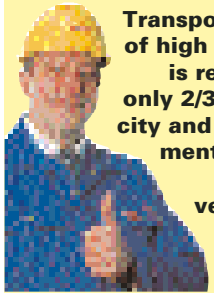
What means edge protection ?

Over the lifting webbing or roundsling a textile profile hose with an at least 5 mm thick polyurethane coating is pulled. Such hoses may be exchanged and shifted (profile hoses DoLex 1+2).

On the other hand, a lifting belt may be coated with an at least 5 mm thick coating of firm polyurethane on each side of the lifting belt. Such a coating on the lifting belt is firm (DoLex – fixed coating, see pages 35-37).

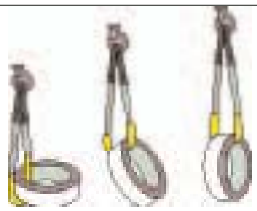
All the fixed coatings and profile hoses may be additionally covered by a granulated surface protection or the surface may be roughened to increase the slip protection.

Polyurethane is a very fatigue resistant material. It has the property that when in contact with a sharp edge, it becomes still harder and more resistant against cuts than under the stretched condition. This results of the fact that the molecular structure of polyurethane gets compressed at places under pressure



Transport of coils: because of high surface pressure, it is recommended to use only 2/3 of the lifting capacity and to avoid any movements to the side of the sharp edges, transverse to the protective hose of the lifting belt!

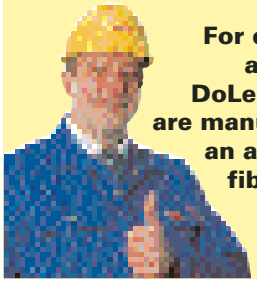
Turning a coil (a motion of 180°): the length of the protective hose makes max. _ of belt length between the slings.



Setting up a coil (a motion of 90°): the length of the protective hose makes max. 2/3 of belt length between the slings.

The DoLex profile hoses (see the next page) may be easily shifted and exchanged thanks to a special textile inlay. Only this way turning a sharp edged load will be possible. With the DoLex profile hoses the following effect may be realized: when lifting the load (e.g. a coil) the hose sticks without moving to the edge of a transported load. The lifting belt is gliding in the profile hose and can undisturbed expand and get positioned under the growing load.

Similarly as the DoLex 1 profile hoses, also the DoLex 2 hoses with the rib can be shifted and exchanged. The DoLex 2 with the rib, on the side which is turned towards the transported load is furnished with longitudinal grooves. The benefit of this is that the load under transport first lies on the ribs. Thanks to these ribs the hose is even more tight in contact with the lifted load and offers this way additional protection against gliding. The ribs lead also to a better protection against squeezing. The textile hose lining offers the lifting belt good gliding.

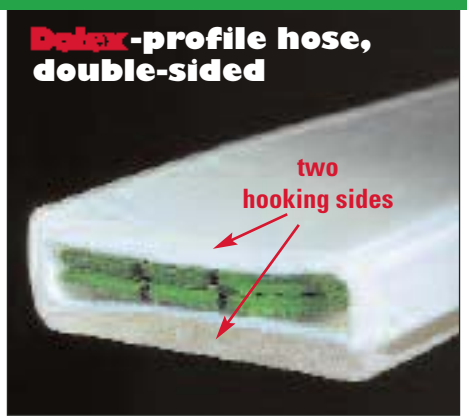


For extremely hard application, the DoLex profile hoses are manufactured with an additional glass fibre lining in PU coating.

Edge protection
Profile hoses

Dolex

profile hoses, single sided, double sided, with rib

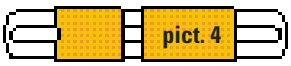


one-piece

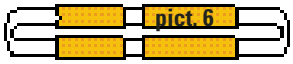
continious

one-piece double

two-piece



two-pieces



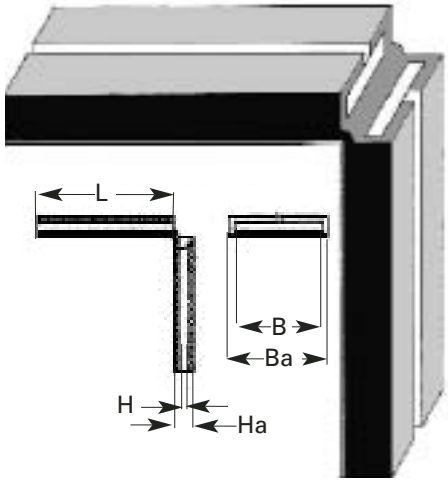
two-piece double

article No. DoLex **smooth on 1 side**	price **EUR**	article No. DoLex **smooth on 2 sides**	price **EUR**	article No. DoLex **ribs/smooth**	price DoLex with rib **EUR**	**for lifting webbing** up to the belt width mm	**for roundslings** acc. to **pict. 3 & 4**	acc. to **pict. 5 & 6**
5598 0500	29,00	5598 0502	37,15	0598 0504	-	30	–	500 kg / 1000 kg
5598 0600	30,50	5598 0602	38,95	5598 0604		50	–	1500 kg / 2000 kg
5598 0700	32,00	5598 0702	41,95	5598 0704	56,20	60	500 kg / 1000 kg	
5598 0800	34,45	5598 0802	41,95	5598 0804		75	—	
5598 0850	34,45	5598 0852	46,65	5598 0854		–	1500 kg / 2000 kg	3000 kg
5598 1000	38,65	5598 1002	53,15	5598 1004	75,00	90	3000 kg	4000 kg
5598 1350	46,95	5598 1352	74,75	5598 1354	99,00	120	4000 kg	5000 kg / 6000 kg
5598 1500	49,50	5598 1502	74,75	5598 1504		–	5000 kg / 6000 kg	8000 kg / 10000 kg
5598 1600	53,70	5598 1602	77,45	5598 1604	114,40	150	–	12000 kg / 15000 kg
5598 1800	58,20	5598 1802	97,85	5598 1804	134,00	180	8000 kg	20000 kg
5598 2000	60,95	5598 2002	111,55	5598 2004		–	10000 kg/12000 kg	25000 kg
5598 2400	72,10	5598 2402	126,60	5598 2404	169,00	240	–	–
5598 2500	74,15	5598 2502	135,15	5598 2504		–	15000 kg	–
5598 3200	122,20	5598 3202	217,20	5598 3204	236,00	300	20000 kg/25000 kg	–

Edge protection accessories

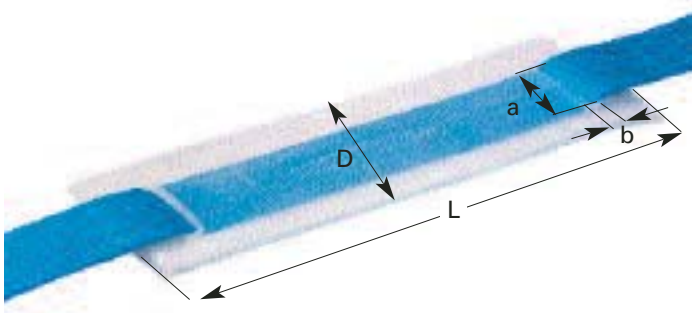
DoLex lifting webbing edge protection angle made of polyurethane (PU) with inserted perforated metal sheet for uniform load distribution

article No.	for webbing width mm	length	dimensions in mm width	width a	hight	hight a	price/piece EUR
4511 0030	30	100	40	50	10	20	40,00
4511 0060	60	100	70	80	12	30	41,00
4540 0065	90	100	100	110	12	30	45,00
4511 0120	120	100	135	145	12	30	50,00
4511 0150	150	150	160	170	12	30	66,00
4511 0180	180	150	190	200	12	30	70,00
4511 0210	210	200	220	230	15	40	83,00
4511 0240	240	200	280	300	15	40	87,00
4511 0270	270	200	280	300	15	40	92,00
4511 0300	300	200	320	340	20	45	103,00



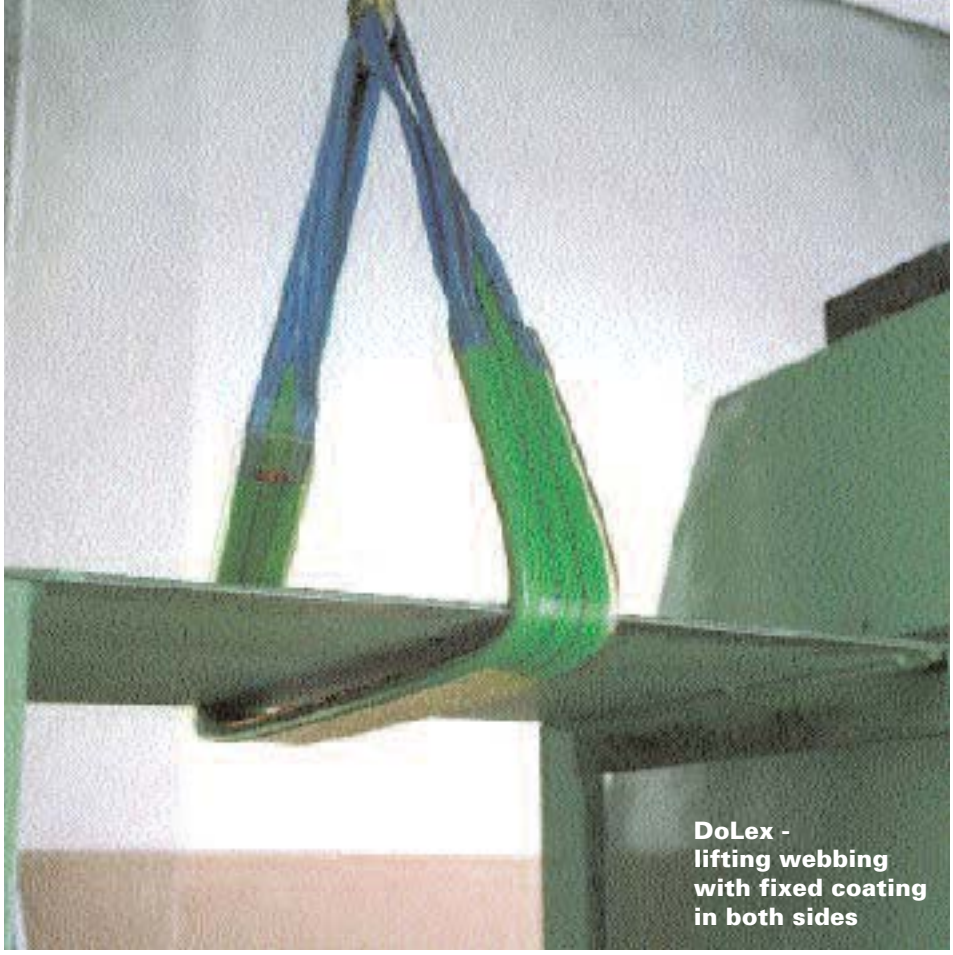
edge protection plates made of polyurethane (PU)

article No.	dimensions length x width mm	furrows recess a x b	price/piece EUR
4512 0025	250 x 80	25 x 10	2,75
4512 0035	250 x 80	35 x 10	2,85
4512 0055	300 x 100	55 x 10	4,15
4512 0060	450 x 100	60 x 30	10,00
4512 0070	450 x 120	70 x 30	10,30
4512 0080	450 x 120	80 x 30	11,55
4512 0090	470 x 130	90 x 40	12,20
4512 0100	470 x 150	100 x 40	13,50
4512 0110	470 x 150	110 x 40	13,70
4512 0130	470 x 170	130 x 40	15,20
4512 0160	470 x 200	160 x 40	16,70
4512 0200	470 x 240	200 x 40	17,75
4512 0220	470 x 240	220 x 40	18,00
4512 0250	500 x 280	250 x 40	19,70
4512 0320	600 x 400	320 x 40	27,50



lifting belt edge protection of polyurethane (PU)

article No. without a magnet	article No. with a magnet	for webbing width up to belt width mm	price/piece without magnet EUR	price/piece with magnet EUR
4540 0025	4541 0025	25	37,65	55,50
4540 0040	4541 0040	40	40,00	57,50
4540 0065	4541 0065	65	44,40	61,50
4540 0075	4541 0075	75	49,50	81,40
4540 0100	4541 0100	100	57,00	93,60
4540 0125	4541 0125	125	62,00	98,00
4540 0150	4541 0150	150	67,00	103,00
4540 0200	4541 0200	200	86,00	150,00
4540 0300	4541 0300	300	107,00	196,00



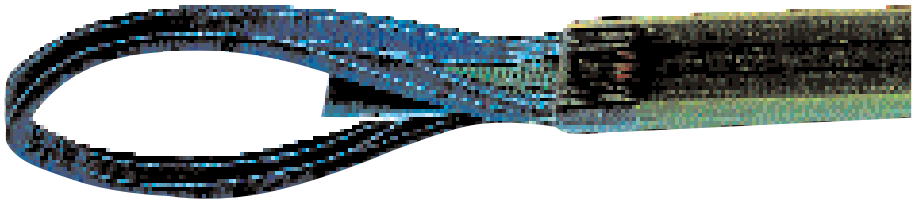
DoLex - lifting webbing with fixed coating in both sides

Lifting belts with firm coating

Fixed coatings of minimum 5 mm thickness are especially advantageous when small loads of small material width in U-shape are to be lifted and the usable length of the lifting belt is very short. In this case the fixe coating offers more flexibility than a short and relatively rigid hose.
The DoLex fixed coatings make with the lifting belt a firm casting and are transparent in order to enable a check of the fixture. However, the DoLex fixed coating should be applied only when the load should not move on the belt, so that no relative motion between the coating and the load should take place. For such lifting procedures the DoLex profile hoses should be given priority.

Please note:

fixed coatings are not suitable for turning loads with sharp edges!



lifting belts with a one-side fixed coating

lifting capacity in kg single	lifting capacity in kg double	webbing dimensions in mm	basic webbing price per 1 m EUR	price of any add. webbing meter EUR	DoLex, 1 side coating	price per 1 m coating EUR
1000	2000	30 x 7	13,00	4,25	0568 9602	30,15
2000	4000	60 x 7	19,10	6,65	0568 9752	38,35
3000	6000	90 x 7	28,35	10,50	0568 9782	56,40
4000	8000	120 x 7	41,65	15,30	0568 9852	60,95
5000	10000	150 x 7	56,60	18,45	0568 0002	68,85
6000	12000	180 x 7	74,80	29,50	0568 0102	74,20
8000	16000	240 x 7	90,05	35,30	0568 0202	86,55
10000	20000	300 x 10	131,15	64,80	0568 0302	98,15

lifting belts with a double-sided fixed coating

lifting capacity in kg single	lifting capacity in kg double	webbing dimensions in mm	basic webbing price per 1m EUR	price of any add. webbing meter EUR	DoLex, 1 side coating	price per 1 meter coating EUR
1000	2000	30 x 7	13,00	4,25	0569 9602	49,75
2000	4000	60 x 7	19,10	6,65	0569 9752	61,00
3000	6000	90 x 7	28,35	10,50	0569 9782	82,50
4000	8000	120 x 7	41,65	15,30	0569 9852	90,60
5000	10000	150 x 7	56,60	18,45	0569 0002	99,15
6000	12000	180 x 7	74,80	29,50	0569 0102	116,80
8000	16000	240 x 7	90,05	35,30	0569 0202	145,20
10000	20000	300 x 10	131,15	64,80	0569 0302	159,30

Stirrup slings with fixed coating, highly abrasion and cutting resistant

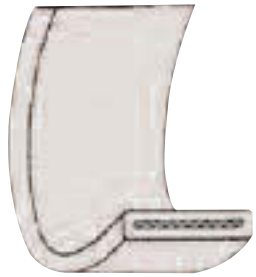
DoLex

– DH 100 stirrup slings with one-sided fixed coating

lifting capacity in kg single	lifting capacity in kg double	webbing dimensions in mm	basic webbing price per 1 m EUR	price of any add. webbing meter EUR	DoLex, 1 side coating	price per 1 m coating EUR
1000	2000	30 x 7	27,00	4,00	0568 9682	30,10
2000	4000	60 x 7	36,00	6,00	0568 9782	38,35
3000	6000	90 x 7	56,00	10,00	0568 9782	56,40
4000	8000	120 x 7	100,00	15,00	0568 9852	60,95
5000	10000	150 x 7	123,00	18,00	0568 0082	68,80
6000	12000	180 x 7	170,00	29,00	0568 0182	74,20
8000	16000	240 x 7	305,00	35,00	0568 0282	86,60
10000	20000	300 x 10	610,00	64,00	0568 0382	98,10

– DH 100 stirrup slings with double-sided fixed coating

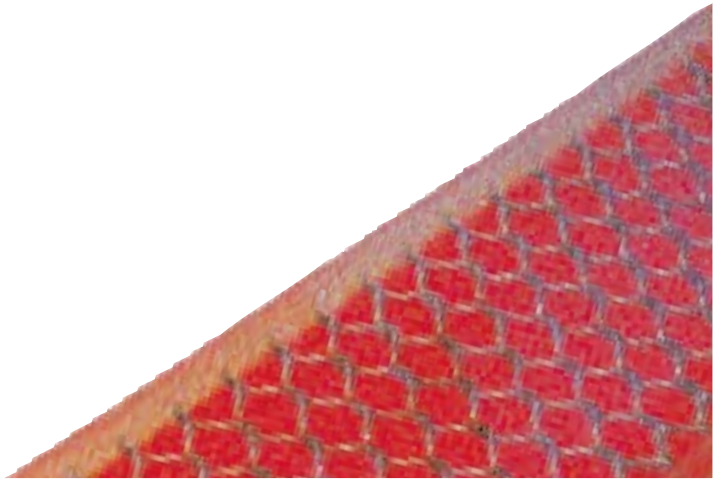
lifting capacity in kg single	lifting capacity in kg double	webbing dimensions in mm	basic webbing price per 1 m EUR	price of any add. webbing meter EUR	DoLex, 2 sides coating	price per 1 m coating EUR
1000	2000	30 x 7	27,00	4,00	0569 9682	49,75
2000	4000	60 x 7	36,00	6,00	0569 9782	61,00
3000	6000	90 x 7	56,00	10,00	0569 9782	82,50
4000	8000	120 x 7	100,00	15,00	0569 9882	90,60
5000	10000	150 x 7	123,00	18,00	0569 0082	99,70
6000	12000	180 x 7	170,00	29,00	0569 0182	116,80
8000	16000	240 x 7	305,00	35,00	0569 0282	145,20
10000	20000	300 x 10	610,00	64,00	0569 0382	159,30



Additional cast-in anti-cutting filler of metal for DoLex hoses and firm coatings

for webbing width mm	extra charge for 1-sided metal filler per meter EUR
30	13,00
60	15,00
90	24,00
120	27,00
150	31,00
180	33,00
240	39,00
300	45,00

In case of slippery, smooth, oiled or fat surfaces, both the firm coatings, as well as the profile hoses may be supplied with a granulated resp. roughened surface protection! Please inquire.



Stirrup slings with firm coating, highly abrasion and cutting resistant

Dolex

DoLex – lifting webbing with one-sided fixed coating, one end with an eye, the other one with lace-hook HSH

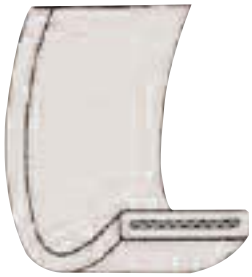
	lifting capacity in kg single	lifting capacity in kg double	webbing dimensions per 1 m mm	basic webbing price 1m Band EUR	price of any add. webbing meter EUR	DoLex, 1 side coating	Price per 1m coating EUR
	1000	2000	30 x 7	31,00	4,00	0528 9682	30,10
	2000	4000	60 x 7	60,00	6,00	0528 9782	38,35
	3000	6000	90 x 7	82,00	10,00	0528 9782	56,40
	4000	8000	120 x 7	260,00	15,00	0528 9852	60,95
	5000	10000	150 x 7	312,00	18,00	0528 0082	68,80
	6000	12000	180 x 7	484,00	29,00	0528 0182	74,20
	8000	16000	240 x 7	862,00	35,00	0528 0282	86,60
	10000	20000	300 x 10	1127,00	64,00	0528 0382	98,10

e-s

e-h

	lifting capacity in kg single	lifting capacity in kg double	webbing dimensions per 1 m mm	basic webbing price 1m Band EUR	price of any add. webbing meter EUR	DoLex, 2 sides coating	price per 1m coating EUR
	1000	2000	30 x 7	31,00	4,00	0529 9682	49,75
	2000	4000	60 x 7	60,00	6,00	0529 9782	61,00
	3000	6000	90 x 7	82,00	10,00	0529 9782	82,50
	4000	8000	120 x 7	260,00	15,00	0529 9852	90,60
	5000	10000	150 x 7	312,00	18,00	0529 0082	99,20
	6000	12000	180 x 7	484,00	29,00	0529 0182	116,80
	8000	16000	240 x 7	862,00	35,00	0529 0282	145,20
	10000	20000	300 x 10	1127,00	64,00	0529 0382	149,30

e-s



Additional DoLex fixed coating types are available on request:

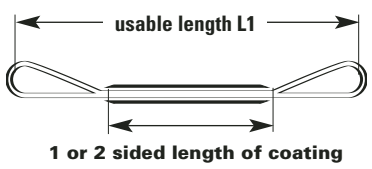
**one-sided,
fixed coated
with non-slipping and handy pellets**

**both-sided,
thereof one-sided
with non-slipping and handy pellets**

Order example

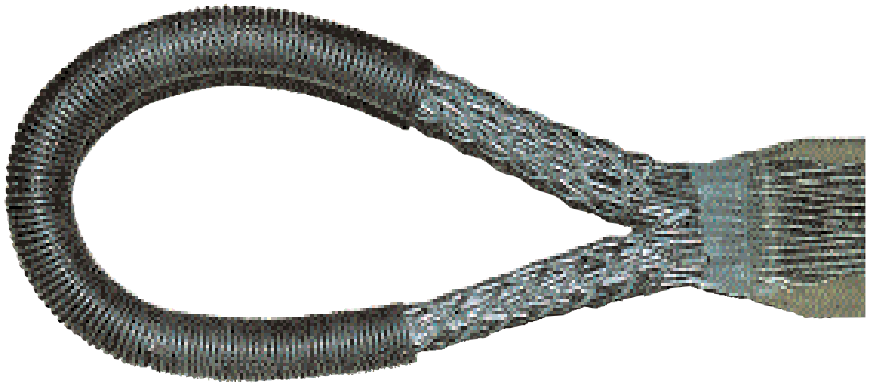
You would like to order as follows:
1 pce DoLex lifting belt, type A
with slings at both ends, lifting capacity – 3 t;
6 m usable length L1 with firm coating on one side, 3 m long.

And this is your order pattern:
1 piece Art.No.0568 9782, usable length L1 . 6m with 3 m of firm coating



Webbed steel slings made of galvanized and twisted wire strands

Dolex



Webbed steel slings made of galvanized twisted wire strands have an extremely long life, are load saving and are flexibly readjusting themselves to the shape of load.

Dolezych supplies three different types:

- with spiral spring thimbles both sided
- with crane stirrups of high quality steel, with pipe thimbles which keep the belt in the stirrup wearless and able to move
- with combi stirrups

May be supplied zinc plated, vulcanized or DoLex (PU) coated.

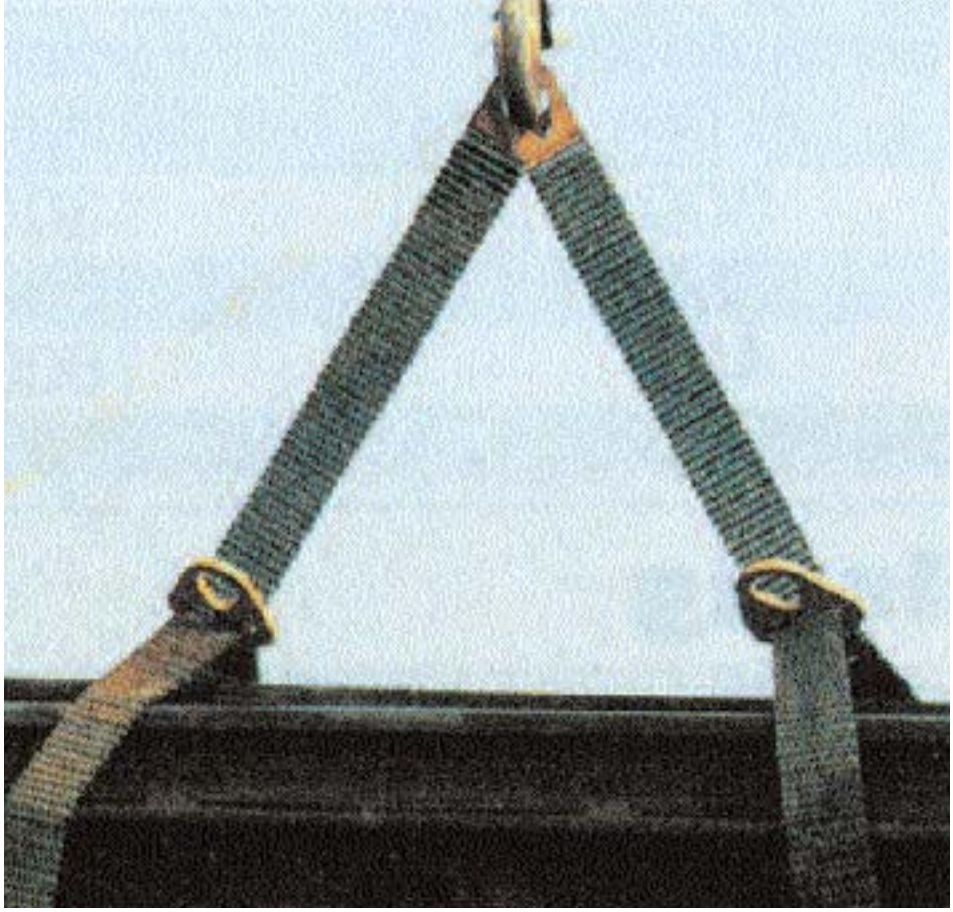
The Band rope lifting belts are available in the following varieties

Galvanized

Vulcanized

DoLex coated

lifting capacity direct	lifting capacity double	surface	dimension (width x thickness)	spiral spring thimbles article No.	price per 1 meter **EUR**	2 crane stirrups article No.	price per 1 meter **EUR**	passing through stirrup article No.	price per 1 meter **EUR**	price per any add. meter **EUR**
500	1000	galvanized	40 x 6	0501 1004	119,00	0501 0004	99,00	0521 0004	162,00	25,00
		vulcanized	50 x 10	0503 0004	161,00	0503 0003	127,00	0523 0003	192,00	50,00
		PU-coated	50 x 10	0504 1004	188,00	0504 0004	168,00	0524 0004	231,00	93,00
1000	2000	galvanized	40 x 6	0501 2004	130,00	0501 2005	122,00	0521 2005	208,00	28,00
		vulcanized	50 x 10	0503 1005	174,00	0503 1006	149,00	0523 1006	235,00	67,00
		PU-coated	50 x 10	0504 2004	198,00	0504 3005	190,00	0524 3005	301,00	97,00
2000	4000	galvanized	60 x 8	0501 3004	157,00	0501 3005	158,00	0521 3005	267,00	37,00
		vulcanized	70 x 13	0503 2005	227,00	0503 2006	212,00	0523 2006	323,00	70,00
		PU-coated	70 x 13	0504 3004	234,00	0504 3006	234,00	0524 3006	343,00	111,00
3000	6000	galvanized	65 x 8	0501 4004	188,00	0501 4005	189,00	0521 4005	301,00	49,00
		vulcanized	80 x 13	0503 3005	255,00	0503 3006	212,00	0523 3006	361,00	93,00
		PU-coated	80 x 13	0504 4004	266,00	0504 4005	266,00	0524 4005	384,00	113,00
5000	10000	galvanized	100 x 8	0501 5004	267,00	0501 5005	370,00	0521 5005	762,00	70,00
		vulcanized	120 x 15	0503 4005	357,00	0503 4006	416,00	0523 4006	828,00	122,00
		PU-coated	120 x 15	0504 5004	427,00	0504 5005	763,00	0524 5005	927,00	234,00
8000	16000	galvanized	110 x 10	0501 6004	431,00	0501 6005	644,00	0521 6005	979,00	77,00
		vulcanized	120 x 20	0503 5005	500,00	0503 5006	665,00	0523 5006	1010,00	142,00
		PU-coated	120 x 20	0504 6004	588,00	0504 6005	812,00	0524 6005	1140,00	240,00
12000	24000	galvanized	140 x 10	0501 7004	616,00	0501 7005	805,00	0521 7005	1077,00	102,00
		vulcanized	150 x 25	0503 6005	776,00	0503 6006	922,00	0523 6006	1307,00	200,00
		PU-coated	150 x 25	0504 7004	812,00	0504 7005	973,00	0524 7005	1268,00	288,00
15000	30000	galvanized	160 x 15	0501 8004	791,00	0501 8005	2727,00	0521 8005	2936,00	133,00
		vulcanized	200 x 30	0503 7005	1000,00	0503 7006	2911,00	0523 7006	3072,00	308,00
		PU-coated	200 x 30	0504 8004	a. A.	0504 8005	2990,00	0524 8005	3188,00	367,00
20000	40000	galvanized	200 x 20	0501 9004	a. A.	0501 9005	2970,00	0521 9005	3376,00	179,00
		vulcanized	230 x 35	0503 8005	a. A.	0503 8006	3215,00	0523 8006	3275,00	385,00
		PU-coated	230 x 35	0504 9004	a. A.	0504 9005	a. A.	0524 9005	a. A.	a. A.



Wire mesh slings

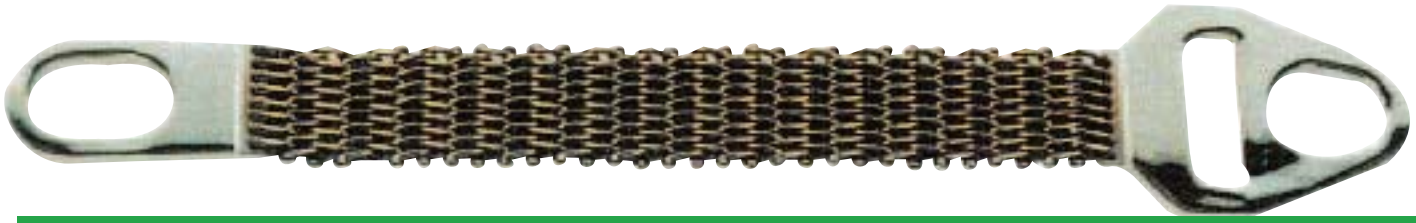
DoPlus eye slings

Dolex

Wire mesh slings

article No.	width in mm	lifting capacity in kg single	lifting capacity in kg double	weight of 1 m, stirrups inclus. in ca. kg	price per 1 meter in ca. kg	price per any add. meter EUR	EUR
0503 0750	50	750	1500	2,50	1,85	352,84	218,02
0503 0760	75	1165	2330	3,95	2,80	400,75	231,72
0503 1270	100	1500	3000	4,95	3,70	447,64	244,35
0503 1500	150	2250	4500	13,20	5,75	512,93	275,43
0503 2030	200	3000	6000	17,50	7,60	669,33	290,16
0503 2500	250	3750	7500	31,90	9,50	1.011,13	331,78
0503 3050	300	4500	9000	39,05	11,35	1.154,91	362,30

The wide surface of contact is flexibly readjusting itself to the shapes of loads and leaves the transported load undamaged .The flexible plait has a small extensibility and a high form stability. It is particularly suitable for transported angular goods and for rough surfaces.



DoPlus double-layer eye slings

The DoPlus double-layer eye slings with working surface stitched round are practically indestructible. The additional working surface is an extra wear protection for use in contact with extremely rough surfaces. This wear protection can be reconditioned.

The DoPlus eye slings may be on request manufactured also in a special folding version. This can result that e.g. a 120 mm wide and 9 mm thick belt will change into a belt of 60 mm wide and 18 mm thick.

article No.	lifting capacity in kg single	lifting capacity in kg double	webbing width sling length x thickness in mm	shortest in mm	price per webbing length in mm	price per any 1 meter EUR	add. meter EUR
0565 0302	1000	2000	30 x 9	200	850	18,25	6,00
0565 0802	2000	4000	60 x 9	300	1150	26,70	10,40
0565 0902	3000	6000	90 x 9	350	1350	39,70	14,65
0565 1202	4000	8000	120 x 9	450	1800	58,30	21,40
0565 1502	5000	10000	150 x 9	500	1900	82,10	26,75
0565 1802	6000	12000	180 x 9	550	2100	108,45	42,75
0565 2402	8000	16000	240 x 9	600	2300	135,10	52,95
0565 3002	10000	20000	300 x 12	750	2500	206,50	96,80

Protective tubes + wear protection for lifting slings and roundslings

Dolex

What means wear protection?

Wear protection is an additional outfit of all textile products aimed at increasing their abrasive resistance and to achieve their longer life periods.

The following types are standing the expectations in the everyday practice and prevent a premature wear:

- protective tube of PVC
- protective tube of PU-Tex
- DoPlus-wear preventing cover
- DoStabil roundsling coating (see page 60)
- DoRobust coating
- Plastic impregnation (pls.inquire)
- Polyurethane spray coating (pls. Inquire)

Wear protective tubes of PVC and PU-Tex for eye slings

1 pce

2 pces

Wear protective tubes of PVC and PU-Tex for roundslings

going through

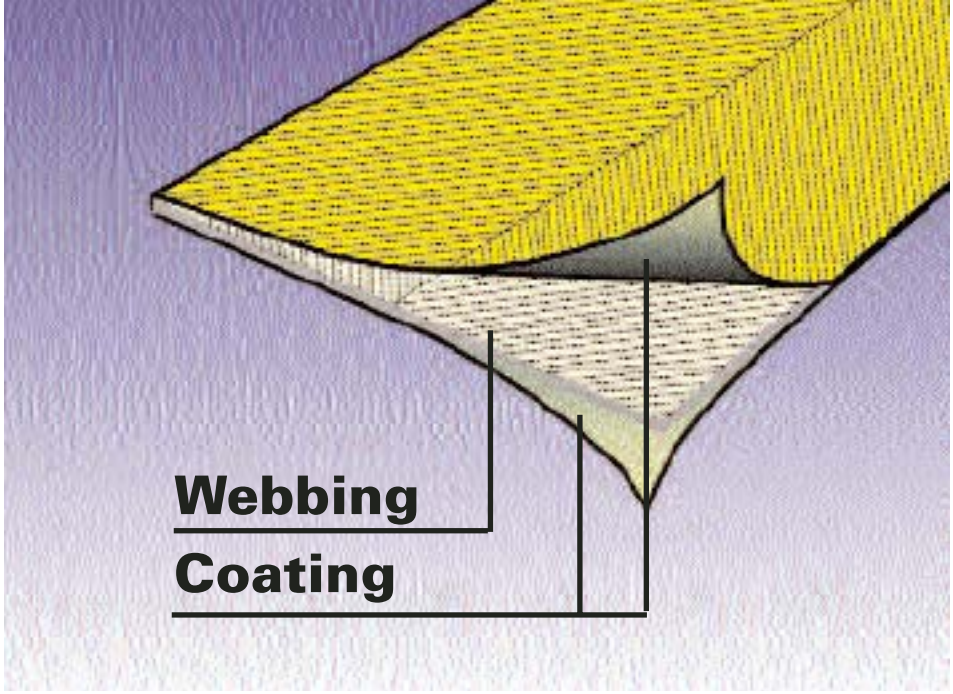
2 pces

1 double pce

2 double pces

article No.	for lifting belts up to belt width **drawing 1 & 2**	roundslings **drawing 3 & 4**	for application with per meter **drawing 5 & 6**	price **EUR**
5500 0040	30 mm	–	500 / 1000 kg	3,40
5500 0060	50 mm	–	1500 / 2000 kg	3,70
5500 0070	–	500 / 1000 kg	–	4,40
5500 0080	60-75 mm	1500 / 2000 kg	3000 kg	5,15
5500 0100	90 mm	3000 kg	4000 kg	5,65
5500 0120	–	4000 kg	5000 / 6000 kg	7,95
5500 0150	–	5000 / 6000 kg	8000 / 10000 kg	10,25
5500 0160	120-150 mm	–	12000 / 15000 kg	11,15
5500 0180	180 mm	8000 kg	20000 kg	14,65
5500 0200	200 mm	10000 / 12000 kg	25000 kg	18,35
5500 0240	240 mm	15000 kg	–	28,30
5500 0300	300 mm	20000 / 25000 kg	–	43,40

article No.	for lifting belts up to belt width **drawing 1 & 1**	for application with roundslings **drawing 3 & 4**	**drawing 5 & 6**	price per meter **EUR**
5500 2040	30 mm	–	–	4,80
5500 2050	–	–	500 / 1000 kg	5,95
5500 2065	50-60 mm	–	1500 / 2000 kg	7,20
5500 2070	–	600 / 1000 kg	–	8,10
5500 2080	65-75 mm	1500 / 2000kg	3000 kg	9,45
5500 2100	90 mm	3000 kg	4000 kg	10,60
5500 2120	120 mm	4000 kg	5000 / 6000 kg	12,30
5500 2150	–	–	8000 / 10000 kg	12,90
5500 2160	140-150 mm	5000 / 6000 kg	12000 / 15000 kg	13,30
5500 2180	160 mm	8000 kg	20000 kg	15,00
5500 2200	–	10000 / 12000 kg	25000 kg	16,00
5500 2250	240 mm	15000 kg	–	27,00
5500 2300	300 mm	20000 / 25000 kg	–	30,00



Lifting belt coating Double layer eye sling with wear protection

type 1: strong

type 2 : medium

DoPuPlus DoRobust

As regards loads with sharp edges or with rough surfaces, lifting belts may be applied only in case when the endangered places of the belt will be protected. Therefore, these lifting belts of Dolezych are getting their form stabilization, are stretched to the maximum and get their finish already when manufactured. However, this may not be sufficient for certain applica-tions. For the very rough use the DoRobust concept has been developed. This lifting belt has its "incorporated" wear protection by means of its lacker sealed texture structure. When ready made, the belts are additionally covered with a (ca 1mm thick) plastic (PU). Thanks to this also the seams are tightly sealed and protected. DoRobust is highly abrasion resistant but still flexible and even more fatigue resistant than the standard lifting belts. Tests have proved that the DoRobust lifting belts, when used under rough conditions, offer definitely longer life periods between overhauls.

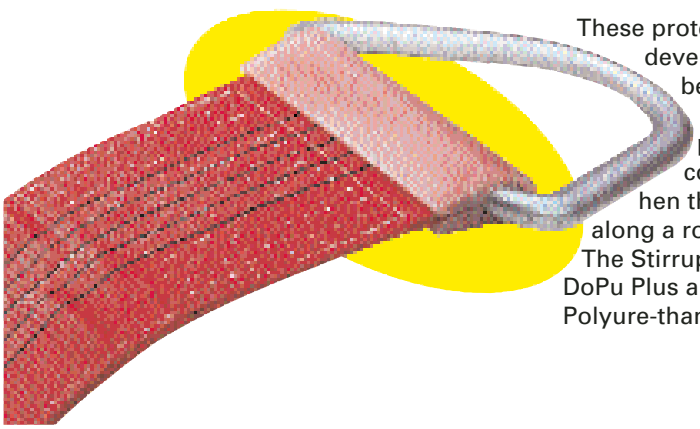
If, contrary to this heavy coating, you consider the thinner and consequently more economic coating sufficient, then take the DoRobust medium product.

Its benefits:

- 2 varieties for the optimum application
- in the lifting belt integrated wear protection for longer life periods between overhauls also when used under rough conditions
- highly abrasion resistant and still more fatigue resistant than the standard lifting belts.

There exists another wear protection variety: the **Latex** – plastic impregnation for sealing the surface and at the same time stiffening the lifting belt. Enquire for more info.

	article No. medium	article No. strong	lifting capacity in kg single	lifting capacity in kg double	belt width x thickness mm	sling length mm	sling width mm	min. belt length mm	DoRobust - medium price per 1 m EUR	DoRobust - medium price per add. m EUR	DoRobust - strong price per 1 m EUR	DoRobust - strong price per add. m EUR
	0563 0312	0563 0302	1000	2000	30 x 7	200	15	850	15,00	4,95	16,95	5,55
	0563 0512	0563 0502	1000	2000	50 x 6	200	25	850	15,00	4,95	16,95	5,55
	0563 0612	0563 0652	1500	3000	65 x 6	250	35	1150	15,85	6,00	17,90	6,75
	0563 0652	0563 0602	2000	4000	60 x 7	300	30	1300	22,00	7,65	24,80	8,65
	0563 0712	0563 0702	2000	4000	75 x 6	300	25	1300	22,00	7,65	24,80	8,65
	0563 0912	0563 0902	3000	6000	90 x 7	350	30	1500	32,65	12,10	36,90	13,65
	0563 1412	0563 1402	3000	6000	140 x 6	350	50	1600	44,35	14,30	50,15	16,15
	0563 1212	0563 1202	4000	8000	120 x 7	425	40	1600	47,85	17,60	54,10	19,85
	0563 1512	0563 1502	5000	10000	150 x 7	500	50	1900	65,15	21,25	73,60	24,00
	0563 1812	0563 1802	6000	12000	180 x 7	550	60	2100	86,05	33,95	97,20	38,35
	0563 2412	0563 2402	8000	16000	240 x 7	600	80	2300	103,65	40,60	117,10	45,85
	0563 3012	0563 3002	10000	20000	300 x10	625	100	2500	150,90	74,50	170,50	84,25



Stirrup protecting clamps DoPu Plus

These protective clamps have been developed specially for lifting belts with steel stirrups. They offer an optimum protection of texture connected with the stirrup hen the belt will be e.g.tugged along a rough ground or dragged. The Stirrup protecting clamps DoPu Plus are made of a reliable DoLex Polyure-thane material.

article No.	for belt width mm	price per piece EUR
4513 0050	50	11,40
4513 0060	60	13,29
4513 0075	75	15,19
4513 0090	90/100	19,89
4513 0120	120	22,75
4513 0150	150	28,43

Ask about clamps for wider belts!

Sling-suspensions of webbing (PES) with safety hook DIN 7541

1 and 2 legs

DoColor

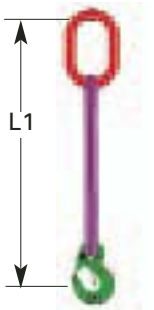
DoColor web sling suspensions are a good combination for handling, consisting of load hanging accessories of the quality class 5/8 (hanging link and hanging set of quality class 8, hook with lacing hole of quality class 5) with big hook throat sizes and a flexible, the transported load sparing belt. When applied in the bound mode and rough or angular load surfaces will be involved, the web sling suspensions should be furnished with wear and edge protections.

Their benefits:

- a handy combination of a load sparing belt strip and of lifting elements of quality class 5/8
- big hook throat sizes
- the lifting elements are firmly stitched with the belt strip, but after a check – reusable.

DoColor sling suspensions of webbing, 1 leg

	article No.	lifting capacity in kg	belt width x thickness in mm	hook opening width in mm	price per 1 meter **EUR**	price per any add. meter **EUR**
	0515 1001	500	30 x 3,5	18,0	22,85	3,90
	0515 2001	1000	30 x 7,0	25,0	26,85	4,90
	0515 4001	2000	60 x 7,0	35,5	42,95	11,15
	0515 5001	3000	90 x 7,0	45,0	52,40	15,20

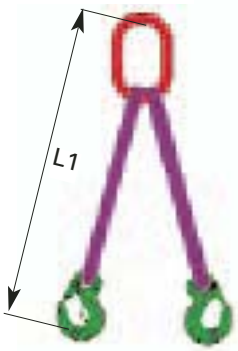


suspension link for 1- / 2- belts

hook with lacing hole of DIN 7541 with big throat size

DoColor sling suspension of webbing, 2 legs

	article No.	lifting capacity up to 45°ß) in kg	belt width x thickness in mm	hook opening width in mm	price per 1 meter **EUR**	price per add.meter **EUR**
	0515 1002	700	30 x 3,5	18,0	35,00	7,80
	0515 2002	1400	30 x 7,0	25,0	47,00	9,80
	0515 4002	2800	60 x 7,0	35,5	82,00	22,30
	0515 5002	4200	90 x 7,0	45,0	103,00	30,40



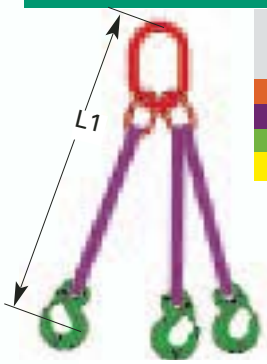
Sling suspensions of webbing (PES) with safety hook DIN 7541

3 and 4 legs

DoColor

During the process of lifting watch how the load moves. Make sure that the load is smoothly balanced and avoid violent moves.

DoColor sling suspensions of webbing, 3 legs

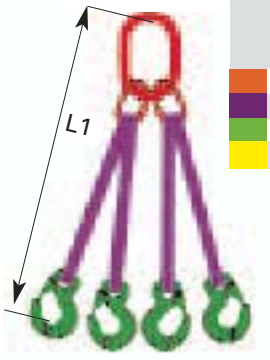


	article-No.	lifting capacity up to 45°ß in kg	belt width x thickness in mm	hook opening width in mm	price per 1 meter EUR	price per any add. meter EUR
	0515 1003	1050	30 x 3,5	18,0	53,00	11,70
	0515 2003	2100	30 x 7,0	25,0	85,50	14,70
	0515 4003	4200	60 x 7,0	35,5	110,00	33,45
	0515 5003	6300	90 x 7,0	45,0	175,00	45,60

suspension set for 3-/4-belts

hook with lacing hole of DIN 7541 of big throat size

DoColor sling suspensions of webbing, 4 legs



	article-No.	lifting capacity up to 45°ß in kg	belt width x thickness in mm	hook opening width in mm	price per 1 meter EUR	price per any add. meter EUR
	0515 1004	1050	30 x 3,5	18,0	85,00	15,60
	0515 2004	2100	30 x 7,0	25,0	87,00	19,60
	0515 4004	4200	60 x 7,0	35,5	130,00	44,60
	0515 5004	6300	90 x 7,0	45,0	215,00	60,80

Suspension-Systems made of web slings with coupling element

1 and 2 legs

DoLeicht H

The DoLeicht H system of suspensions connects the woven lifting belts with coupling elements of material grade 80.
A system for suspensions of 1 – 4 legs of a lifting capacity up to 16.800 kg with a self locking hook with eye (see picture on page 45, down, left side).

B system for suspensions of 2 legs for up to 2.800 kg lifting capacity, with a KBR choker hook (see the picture as below).
In case of these two systems the worn out belt strips simply must be exchanged.
A light weight alternative for chain suspensions!

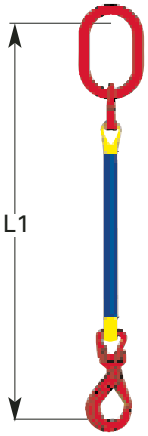
Their benefits:

- the belt legs are additionally covered with an abrasion protection
- a handy combination of a load protecting webbing and high grade elements
- fast self mounting by means of applying the interconnecting elements
- weight reducing in comparison with chain and rope suspensions of same lifting capacity

DoLeicht H B-System with KBR hook

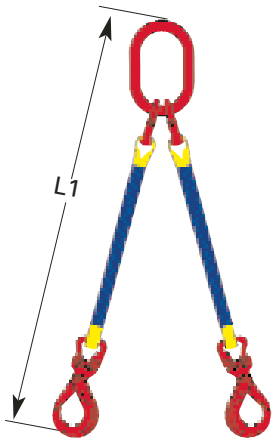
DoLeicht H, 1 leg , A system, with self locking YOZ hook with eye

A-system article No.	lifting capacity in kg	belt width in mm	price per meter **EUR**	price per any add.meter **EUR**
0545 1001	1000	30	86,45	9,90
0545 1501	1500	65	90,50	10,55
0545 2001	2000	60	94,60	11,65
0545 3001	3000	90	104,30	13,70
0545 4001	4000	120	160,05	16,35
0545 5001	5000	150	171,80	19,00
0545 6001	6000	180	184,60	23,15
0545 8001	8000	240	209,65	28,45



DoLeicht H, 2 legs, A system, with self locking YOZ hook with eye

B-system article No.	lifting capacity in kg	belt width in mm	price per meter **EUR**	price per any add.meter **EUR**
0545 1402	1400	30	157,00	19,70
0545 2102	2100	65	167,70	21,10
0545 2802	2800	60	178,95	23,15
0545 4202	4200	90	211,65	27,45
0545 5602	5600	120	303,20	32,65
0545 7002	7000	150	324,15	37,95
0545 8402	8400	180	348,70	46,35
0545 1202	11200	240	396,25	56,90



System B up to max. 2000 kg per leg

B-system article No.	lifting capacity in kg	belt width in mm	price per meter **EUR**	price per any add.meter **EUR**
0546 1402	1400	30	148,80	19,70
0546 2102	2100	65	159,05	21,10
0546 2802	2800	60	170,30	23,20

Components, system B

As a 2 leg suspension of up to 2.800 kg of total lifting capacity, with KBR hooks especially suitable for application within the choker mode

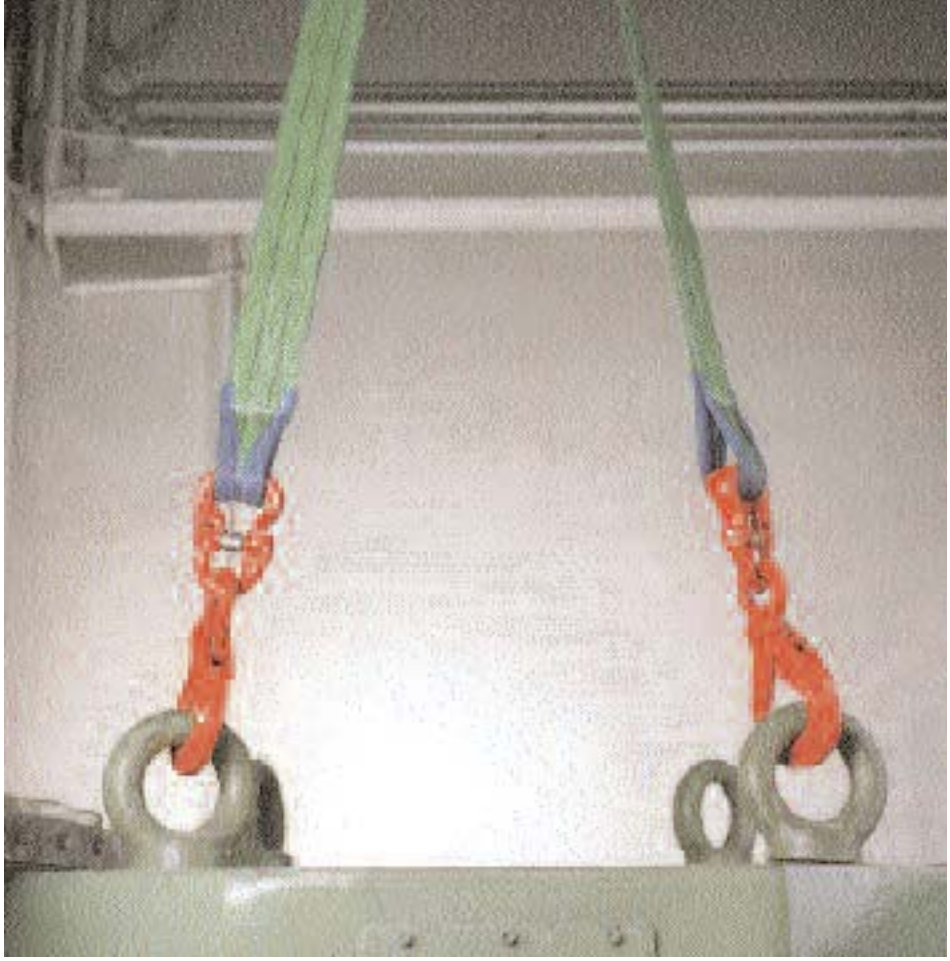
DA 2S suspension link

TK coupling element

KBR hook

assembled DA 2S suspension link with the TK coupling element

assembled hook with the TK coupling element



Suspension-Systems made of web slings with coupling element

3 and 4 legs

DoLeicht H

Order example

You would like to order as follows:
1 pc DoLeicht H, Suspension type B of twolegs, lifting capacity – 2.800 kg; 3 m effective length

And this is your order pattern:
1 piece Art.No.0546 2802,
3 m using length

Components, system A for 1 – 4 legs

with self locking YOZ hook
for total lifting capacity
of up to 16.800 kg,
in the version of 4 belts

master link for 1 and 2 leg suspensions

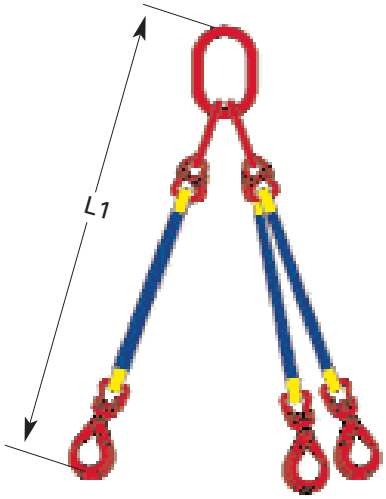
SKR coupling link

master suspension for 3 or 4 leg

self locking YOZ hook with eye

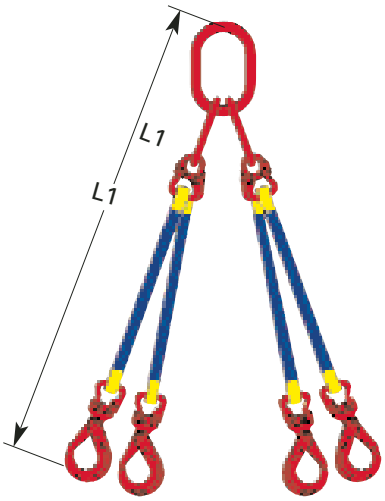
When ordering, pls. specify the L1 dimension!
The lifting capacities of 2 up to 4 legs refer to the ∢ß = 45°

DoLeicht H, 3 legs, A system



A system article No.	lifting capacity in kg	webbing width in mm	price per meter EUR	price per any add. meter EUR
0545 2103	2100	30	248,50	29,55
0545 3153	3150	65	261,30	31,60
0545 4203	4200	60	277,15	34,80
0545 6303	6300	90	315,00	41,10
0545 8403	8400	120	474,00	49,00
0545 0503	10500	150	537,35	57,00
0545 2603	12600	180	591,05	69,55
0545 6803	16800	240	629,95	85,35

DoLeicht H, 4 legs, A system



A system article No.	lifting capacity in kg	webbing width in mm	price per meter EUR	price per any add. meter EUR
0545 2104	2100	30	308,85	39,40
0545 3154	3150	65	331,85	42,15
0545 4204	4200	60	349,75	46,35
0545 6304	6300	90	407,50	54,75
0545 8404	8400	120	620,20	65,30
0545 0504	10500	150	640,15	75,85
0545 2604	12600	180	712,25	104,25
0545 6804	16800	240	742,40	114,80

Roundsling suspensions with high tensile components

DoLeicht R

Our roundsling suspensions with components of quality grade 80 are standard-manufactured with **safety hooks with eye (YOS)**. On request, we also supply (against an extra charge) the **self locking hooks with eye (YOZ)**. Please change for the hook version YOZ the article number in its 7th position to "1", e.g. 0544 1011

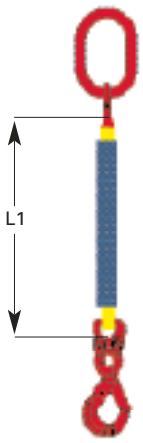
Their benefits:

- a practical combination of load protecting roundslings and high tensile components
- protects the load surface
- the roundsling suspensions are covered into an abrasion protection tube
- less heavy than chain or rope suspensions

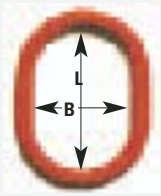
DoLeicht R roundsling suspensions of 1 leg, with YOS hook with eye or with YOZ self locking hook

	with OKN 1 hook article No.	lifting capacity in kg	master link (l x w) dimensions in mm	YOZ opening width in mm	YOZ opening width in mm	price per 1 meter EUR	price per any add. meter EUR
	0544 1001	1000	110 x 60	27	28	78,74	8,95
	0544 1501	1500	110 x 60	27	36	78,79	9,25
	0544 2001	2000	110 x 60	27	36	80,58	9,60
	0544 3001	3000	135 x 75	34	44	94,90	12,50
	0544 4001	4000	160 x 90	42	54	145,67	14,85
	0544 5001	5000	160 x 90	42	54	155,69	17,05

The "L1" dimension (= the roundsling using length) is to be specified in the order.

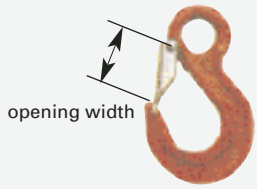


master link for of 1 and 2 leg suspensions

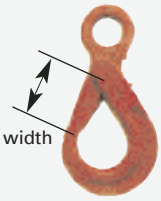


YKKD coupling element with an extra wide surface of contact

YOS safety hook with eye

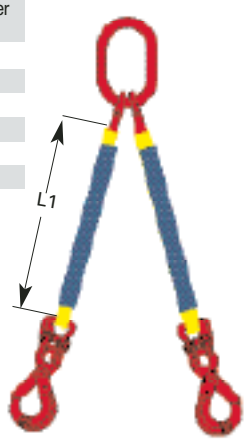


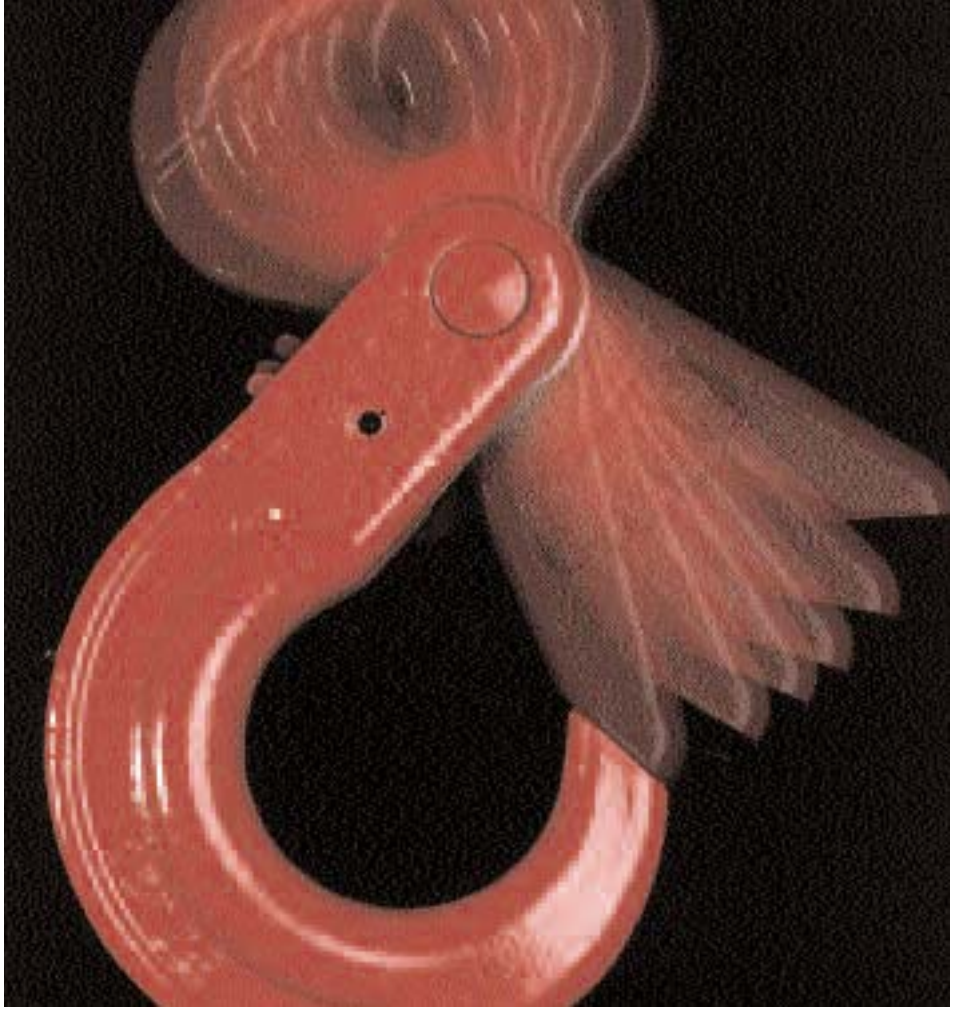
YOZ self closing hook with eye



DoLeicht R roundsling suspensions of 1 leg, with YOS hook with eye or with YOZ self locking hook

	with OKN 1 hook article No.	lifting capacity in kg	master link (l x w) dimensions in mm	YOZ opening width in mm	YOZ opening width in mm	price per 1 meter EUR	price per any add. meter EUR
	0544 1402	1400	110 x 60	27	28	142,19	17,90
	0544 2102	2100	110 x 60	27	36	145,31	18,55
	0544 2802	2800	135 x 75	27	36	147,46	19,15
	0544 4202	4200	160 x 90	34	44	192,30	24,95
	0544 5602	5600	180 x 100	42	54	275,94	29,65
	0544 7002	7000	180 x 100	42	54	294,56	34,05



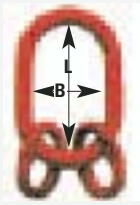


Roundsling suspensions with high tensile components

DoLeicht R

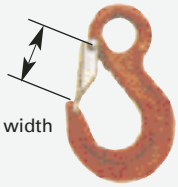
When dimensioning the lifting equipment, pls. consider the loss on lifting capacity due to the angle of inclination. Please consider that the ß angle of inclination is not allowed to exceed 60°.

master suspension for 3 and 4 leg suspensions

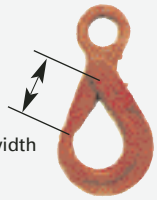


YKKD element with an extra wide surface of contact

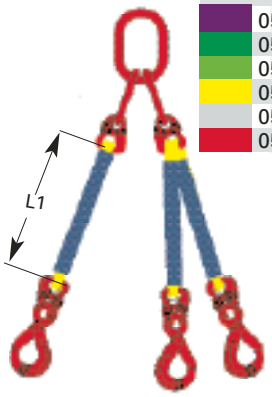
YOS safety hook with eye



YOZ self closing hook with eye

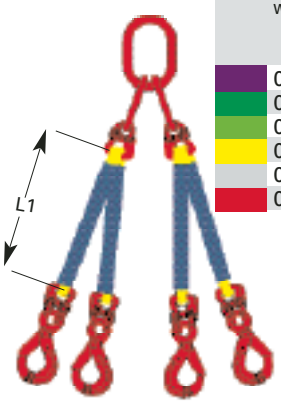


DoLeicht R roundsling suspensions of 3 belts with the YOS hook with eye or with the YOZ self closing hook



	with OKN 1 hook article No.	lifting capacity in kg	master link (l x w) dimensions in mm	YOZ opening width in mm	YOZ opening width in mm	price per 1 meter EUR	price per any add. meter EUR
	0544 2103	2100	135 x 75	27	28	225,63	26,85
	0544 3153	3150	135 x 75	27	36	226,96	27,80
	0544 4203	4200	160 x 90	27	36	228,29	28,70
	0544 6303	6300	180 x 100	34	44	286,48	37,45
	0544 8403	8400	200 x 110	42	54	430,61	44,50
	0544 0503	10500	200 x 110	42	54	438,69	51,10

DoLeicht R roundsling suspensions of 4 belts with the YOS hook with eye or with the YOZ self closing hook



	with OKN 1 hook article No.	lifting capacity in kg	master link (l x w) dimensions in mm	YOZ opening width in mm	YOZ opening width in mm	price per 1 meter EUR	price per any add. meter EUR
	0544 2104	2100	135 x 75	27	28	280,60	35,80
	0544 3154	3150	135 x 75	27	36	288,27	37,05
	0544 4204	4200	160 x 90	27	36	303,86	38,25
	0544 6304	6300	180 x 100	34	44	370,79	49,90
	0544 8404	8400	200 x 110	42	54	564,01	59,35
	0544 0504	10500	200 x 110	42	54	572,95	68,10

Reversal suspensions

combinations of lifting belts, chains and roundslings

DoKehr

Their benefits

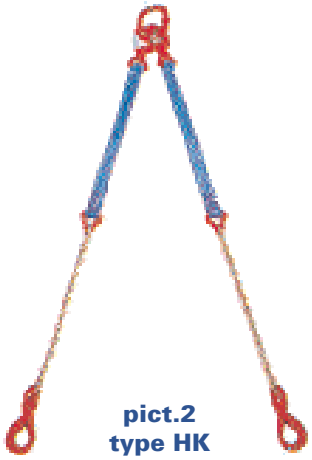
- they save weight and expenses by the use of textile lifting equipment
- two types of lifting equipment in one
- setting of length is made possible via the chain section by means of a shortening hook/claw
- easy reconstruction: just turn around and its ready!

DoKehr combines the benefits of chains, lifting belts and roundslings! The individual belts may be just turned round!

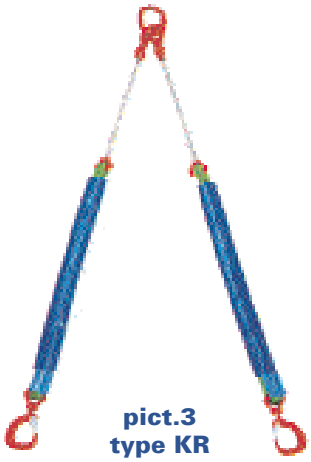
For use under rough conditions: chain within the range of the load

For sensitive loads: roundsling or lifting belt in the range of the load

pict.1
type RK
roundsling / chain



pict.2
type HK
lifting belt / chain



pict.3
type KR
chain / roundsling

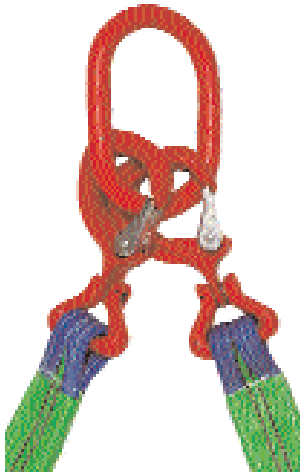
pict.4
type K
chain / lifting belt

These executions are available under DoKehr

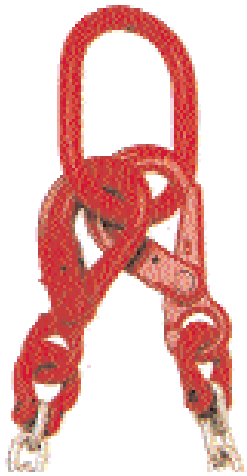
YOZ self locking hook for chains, lifting capacity up to 5000 kg single

YOS self locking hook for roundslings, lifting capacity up to 5000 kg single

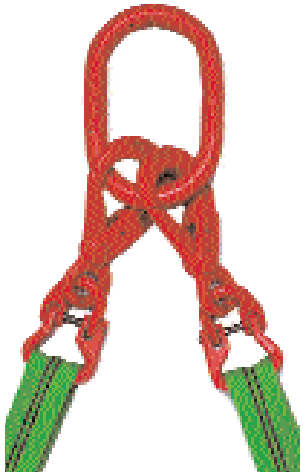
KBR lashing hook for lifting belts, lifting capacity up to 2000 kg single



KBR hook
(up to 2000 kg)
with lifting belt in an oval link

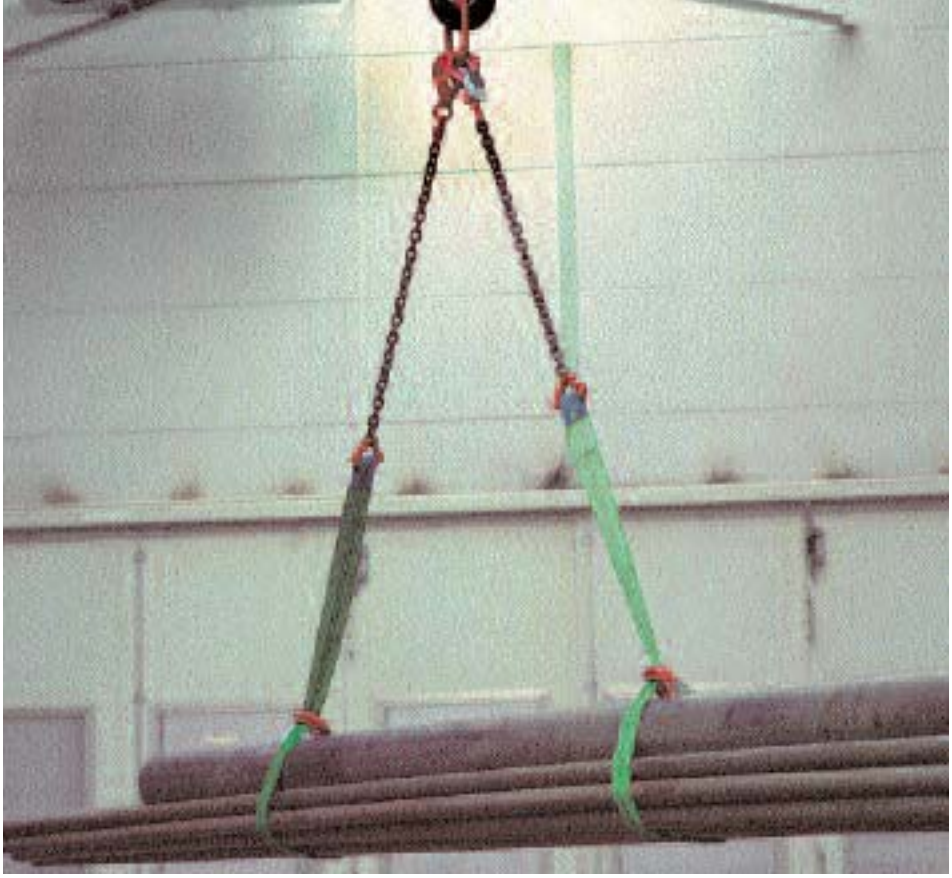


YOZ
self closing hook
(up to 5.000 kg)
with chain in an oval link



YOS
self closing hook
(up to 5.000 kg) with roundsling
in an oval link

The clue is: the individual lifting belts may just be turned round!!!



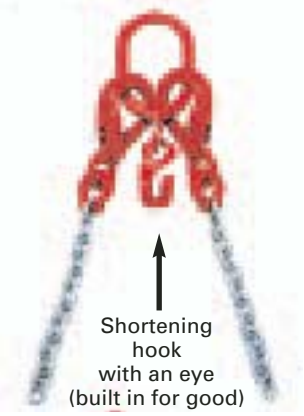
DoKehr reversal suspensions 2-leg, type RK/KR + HK/KH

article No. RK/KR with on both sides self YOZ hook (pict. 1)	lifting capacity up to ∠ ß 45° in kg	Nominal chain thickness in mm	roundsling kg	article No. HK/KH both sides with self closing YOZ hook (pict. 2)	lifting belt width in mm	price per 1 m usable length (L1+L2) EUR	price per any add. meter (L1+L2) EUR
0548 1402	1400	6	1000	0547 1402	30	245,45	29,70
0548 2102	2100	7	1500	0547 2102	50	271,00	31,20
0548 2802	2800	8	2000	0547 2802	60	276,10	33,75
0548 4202	4200	10	3000	0547 4202	90	350,75	42,95
0548 5602	5600	13	4000	0547 5602	120	508,25	74,65
0548 7002	7000	13	5000	0547 7002	150	533,80	78,75

DoKehr reversal suspensions of 4-leg, type RK/KR + HK/KH

article No. RK/KR with on both sides self YOZ hook (pict. 1)	lifting capacity up to ∠ ß 45° in kg	nominal chain thickness in mm	roundsling kg	article No. HK/KH both sides with self closing YOZ hook (pict. 2)	lifting belt width in mm	price per 1 m usable length (L1+L2) EUR	price per any add. meter (L1+L2) EUR
0548 1404	2100	6	1000	0547 1404	30	487,80	66,50
0548 2104	3150	7	1500	0547 2104	50	556,30	69,55
0548 2804	4200	8	2000	0547 2804	60	562,45	75,70
0548 4204	6300	10	3000	0547 4204	90	714,80	85,90
0548 5604	8400	13	4000	0547 5604	120	824,20	119,65
0548 7004	10500	13	5000	0547 7004	150	917,80	125,80

Suspensions type KR and KH

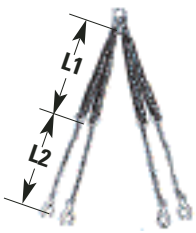


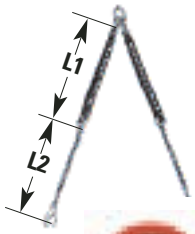
Shortable version with a shortening hook with eye. The “0” in the 1st pos. of the article No.

is to be replace by “1” DKV shortening hook: The 1st pos. of the article No.gets the No. “2”.

Pls. inquire about the surcharge.

When ordering pls. specify the L1 (= using length of roundsling / lifting belt) and L2 (= length of chain with hook)!





In case of the execution with 4 legs, attached to one of the intermediate links will be always 2 lifting legs.

Bundle suspensions + lifting belt suspensions with special Vario-hooks

DoVario

HSH type of hook

DoVario 2-layer bundle suspensions, with HSH hooks

DV 500 article No.	lifting capacity in kg	belt width in mm	price per 1 meter EUR	price per any add. meter EUR	DV 550 article No.	lifting capacity in kg up to 45°∠	belt width in mm	price per 1 meter EUR	price per any add. meter EUR	DV 600 article No.	lifting capacity in kg	belt width in mm	price per 1 meter EUR	price per any add. meter EUR
0516 5001	1000	30	45,30	4,90	0516 5002	1400	30	86,00	9,80	0516 5011	1000	30	51,25	4,90
0516 6001	1500	50	45,30	4,90	0516 6002	2100	50	86,00	9,80	0516 6011	1500	50	51,25	4,90
0516 7001	2000	60	86,25	11,15	0516 7002	2800	60	170,00	22,30	0516 7011	2000	60	93,90	11,15
0516 8001	3000	90	116,45	15,20	0516 8002	4200	90	234,00	30,40	0516 8011	3000	90	127,85	15,20
0516 9001	5000	150	335,80	24,50	0516 9002	7000	150	610,00	49,00	0516 9011	5000	150	347,20	24,50

Their benefits:

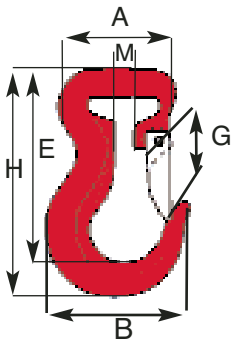
- for choking, slinging or bundling loads
- wide hook surface of contact
- easy hooking on the belt
- hook is well gliding on the belt
- when the belt is ready for disposal, the components, after their examination may be reused.

HSH lifting belt hook for choke mode, for hooking lifting belts and roundslings

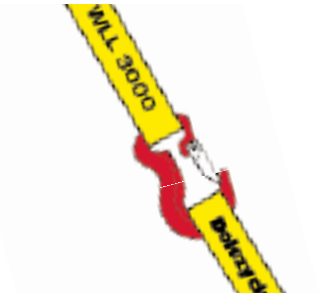
article No.	lifting capacity in t	Dimensions in mm K	P	W	T	H	weight kg	price EUR
0982 0610	1	79	28	45	22	26	0,7	16,20
0982 0620	2	87	34	71	25	35	1,7	38,75
0982 0630	3	96	37	104	29	38	2,4	51,00
0982 0650	5	154	40	185	40	50	7,2	180,00

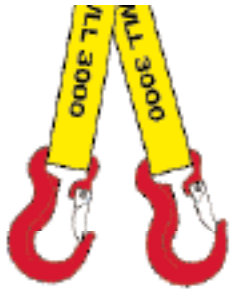
Easy handling when used in the choke mode. The stable safety pawl prevents the sling to get unintentional lost after discharge.
Easy expansion / connecting, hooking of lifting belts and roundslings with no loss on the lifting capacity, just fast, reliable and technically perfect

UVH lifting belt hook for choke mode and for applying suspensions, for connection / expansion of roundslings and lifting belts



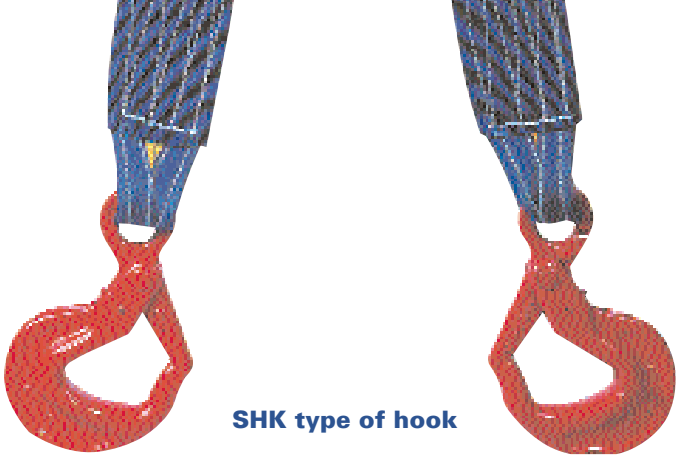
article No.	lifting capacity in t	dimensions in mm G	A	E	B	H	M	weight in kg	price EUR
5900 1306	1,00	24	35	84	73	116	8	0,4	36,25
5900 1308	2,00	28	40	96	86	136	10	0,6	38,75
5900 1310	3,00	33	47	117	108	167	12	1,4	47,75





With no additional construction elements, you have a new suspension in a matter of seconds.A suspension of 1-, 2-, 3- or 4 lifting belts. Just hook the hooks onto the lifting belt or roundsling, on the load and start the lifting process. No problem with expansion / connecting two roundslings or lifting belts - just fast, reliable and technically perfect.

A loose universal hook for the creation of suspensions with lifting belts or roundslings and for connecting or extending them.



SHK type of hook

Suspensions for building purposes, 2 legs with HKH and SHK lifting belt hooks

DoColor

DoColor suspension for building purposes, 2 leg, with HKH and SHK Vario hooks

SHK type of hook

article No.	with type of hook t	belt dimensions in mm	price per 1 meter **EUR**	price per any add. meter **EUR**
0519 9003	SHK 3t	90 x 7 mm	133,00	23,20
0519 9002	HKH 2t	60 x 7 mm	109,00	19,60

lifting capacity in kg at angle of inclination ß	regular direct SHK	regular direct HKH	regular bound SHK	regular bound HKH
0°	6000	4000	4800	3200
0 - 45°	4200	2800	3360	2240
45 - 60°	3000	2000	2400	1600

These special belt suspensions are furnished with very strong safety hooks, which are suitable for the application both under bound mode, as well as for direct load hooking. In addition, the SHK hook of 3 t is self closing. Both types of hooks are stitched together with the lifting belt, so they can not get lost and after their examination they may be used again.
Additionally, the lifting belt is stitched round with a wear protecting cover of a stable, pressed cloth and thanks to this it is best suitable for slinging rough loads.

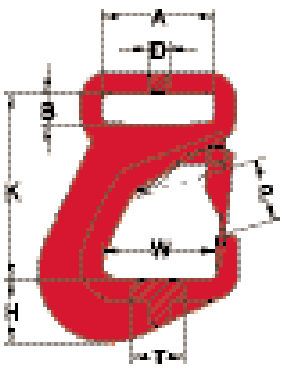
Benefits:

- Ideally suitable for slinging rough loads (stitched round wear protection).
- May be used as suspension hook for hooking directly on the load.
- The hooks are stitched together with the lifting belt, so they can not get lost.

SHK lifting sling hooks, self closing, for application under bound mode and for use in suspensions, 3 t of lifting capacity

article No.	lifting capacity in t	dimensions in mm K	P	A	D	T	H	weight in kg	price **EUR**
0911 8011	3,15	170	38	32	13	32	42	2,4	36,25

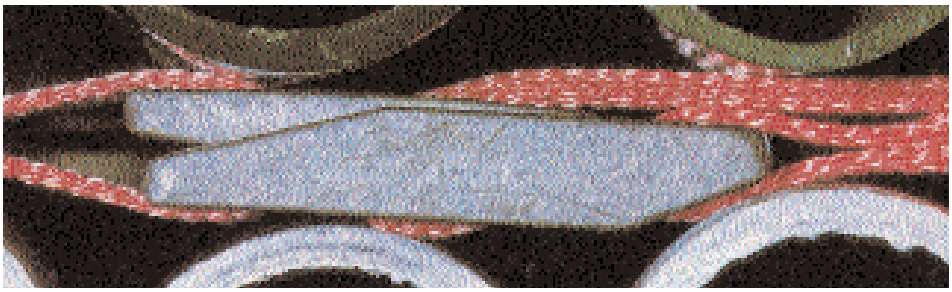
HKH lifting sling hooks, for application under bound mode and for use in suspensions, 2 t of lifting capacity



article No.	dimensions in mm K	P	B	A	D	W	T	H	weight in kg	price **EUR**
0982 0720	140	44	24	81	14	80	40	44	2,0	29,80

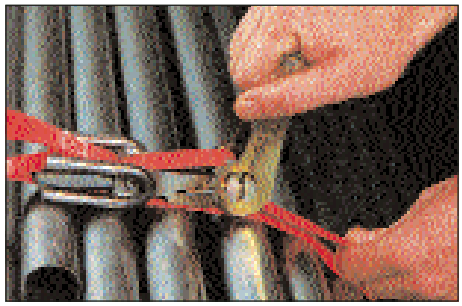
Bundle belts lifting belts

DoFlach



- **Reusable ! No disposal!**
- **Testet and found reliable (e.g. in pipe production plants)**

DoFlach bundle belt for the creation of load units, of woven (PES) belt strip with a super flat clamp.
With these bundle belts it is possible to pile one upon another, with no harm (no scratches or impressions), more bundles.
The super flat belt clamp is made of zinc plated steel – with no wear elements, like bolts and springs. There do not appear any sharp edges or sharp teeth which could damage the strip web. The clamp with no problem may be tightened by hand; with the precious mechanical ratchet jack the tightening force may be considerably increased. Compressed air or special tightening systems are not necessary. An uncontrolled opening, or opening by means of a latch is out of question. For opening purposes, the hand sling offers a good grip. With it you can also open under control and gradually when loading. When stretching or tightening, the hand is all the time outside the danger limits. Cutting injuries are excluded, when tightening or lashing. The belts of 25 mm have an permissible plait tensile force of up to 1200 kg. The expanded and practically not extendible material protects extremly well very sensitive materials under transport. They are available in different colours and on request - with the company's own overprint. This facilitates the organisation of the company's internal transport.
Thanks to permanent reuse, avoided are problems with wastes and disposal.
The belt texture is abrasion and grinding resistant and surface protecting.
The Dolezych belts may be manufactured with anti-static properties and / or fire resistant.



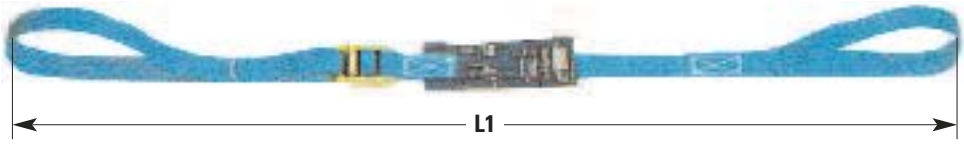
Their benefits:
- Simple and safe bundling
- Hand-tightening
- Higher tightening forces are attainable by means of a special ratchet jack
- The bundles may be piled up by avoiding any damages (scratches or impressions)

DoFlach-bundle belts

article No.	belt width mm	permissed tensile force in daN	price per 1 meter EUR	price per any add. meter EUR
1625 0601	25	600	7,35	0,35
1625 0900	25	900	8,25	0,80
1625 1200	25	1200	9,55	1,00
1625 2000	50	2000	13,85	1,35

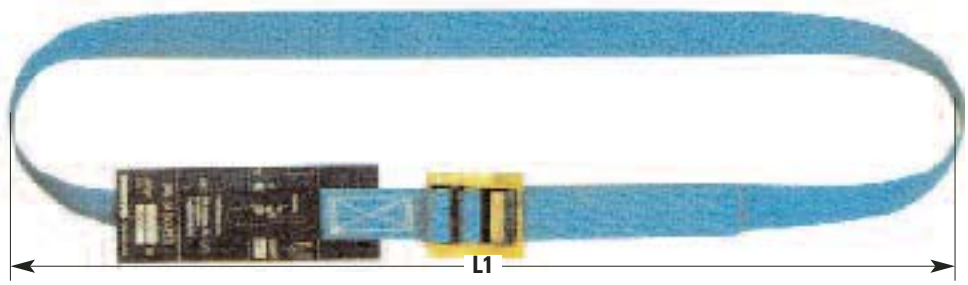
DoFlach eye slings

article No.	lifting capacity in kg single	lifting capacity in kg double	belt width x thickness in mm	eye length in mm	price per 1 meter EUR	price per any add. meter EUR
0530 0902	125	250	25 x 2	150	10,30	1,10
0530 0905	250	500	50 x 3	200	19,50	1,35



DoFlach endless web slings (when ordering 2 x L1 = perimeter is to be specified)

article No.	lifting capacity in kg single	lifting capacity in kg double	belt width x thickness in mm	price per 1 meter EUR	price per any add. meter EUR
0541 0902	250	500	25 x 2	8,20	0,77
0541 0905	500	1.000	50 x 3	13,90	1,33

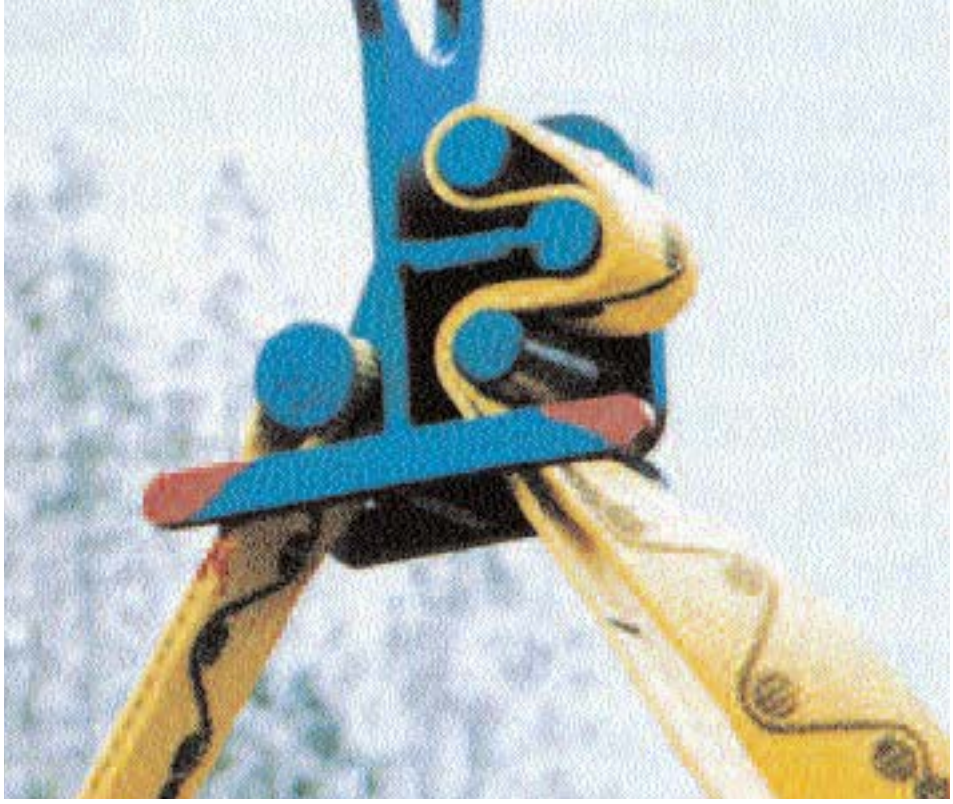


DoFlach eye slings

of polyester (PES), belt width 25 mm and 50 mm

Shorter or longer – no problem in case of these flexible belts. And this in seconds, quite independent, how big is the load. And the eye sling does not have to be opened for its shortening or expansion.
At the same time this light and load protecting belt is easy to handle. At a low lifting level even an asymmetrical load may be easily adjusted.

The Dolezych belts may be manufactured as anti-static and / or fire resistant.



Lifting belts made shorter

DoLyft

Making short or longer with a head of 3 points and with the matching DoLyft lifting belt

DoLyft lifting belts which can be shortened

Now and then new, more economic and made easy constructions can be developed within the load lifting and transport sector to meet the needs of the market ! DoLyft has no moving parts and therefore it is absolutely wear resistant. The correct fixing is secured by a simple and sure handling by means of inserting from the side, while the middle bridge makes sure that fixing has been made correct.

Fixing aid for adjusting the length pair-wise

All lifting belts have in equal distances markings regarding their length. Already at the moment of hanging more lifting belts at the traverse, one should take care that uniform distances are kept,. In order to avoid the hanging mode, the DoLyft should in principle have the possibility of being directly lashed to the load.
The correct positioning during the transport of stairs, balustrades, construction elements: many items should not be transported in a horizontal position, but in the position matching that one of building in, because this makes the assembly easier and auxiliary constructions superfluous.
Also asymmetric elements may be lashed by DoLyft with care at any point to eventually make them hanging horizontally.

Color marking: Dolezych lifting belts have a programmable expansion.
During the transport, the angle of inclination should not exceed 60°. This should be checked by watching the red paint marking on the bottom of the 3-point-head. The DoLyft lifting belt, when ready, is meeting the control conditions of EN 1492-1, while the construction of the 3-point-head is meeting the requirements of BGR 500.
The DoLyft lifting belts can be changed fast however, they always should be replaced by genuine DoLyft lifting belts in order to secure the function and because of:

- the fixed belt thickness
- the programmed expansion
- the length marking for application in pairs
- the final marking
- the eye diameter matching the bolt
- marking with data on lifting capacity

For DoLyft lifting belts is edge protection recommendable. This helps avoiding a too early wear. Order at once with edge protection or with protective hoses.
The length of the lifting belt depends on the size of the transported load (U-shape suspension). The economic benefit results first of all of the short fixing time.
An other application possibility based on the every day practice: when height distances are small or frequently change because of machine superstructures: DoLyft may be flexibly extended or shortened to any level of transport with no influence on the lifting capacity. DoLyft is flexible and does not damage the transported load.
The DoLyft lifting belts are supplied with the following lifting capacity:

Type of slinging	kg, when single	kg, when in pair
	3000	6000
	2100	4200
	1500	3000

DoLyft head

article No.	lifting capacity in kg	price per piece EUR
4510 0001	s. Tabelle unten	130,38

article No.	lifting capacity inkg	price per 1 meter EUR	price per any add. meter EUR
0535 6502	3.000	4,09	3,07

The DoLyft lifting belt is exactly matching the head of 3 points. This system is beneficial particularly, when transporting asymmetric loads.

- **Easy inserting from the side**
- **Fast adjustable when not loaded**
- **Fast belt replacement when excessive long.**

Roundslings with single cover

DoForce 1

Types/Versions:

DoForce 1 roundslings
with continuously printed lifting capacity and with tonnage stripe.

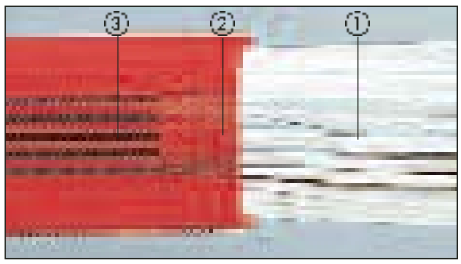
DoForce 2 double cover roundslings
Version same as in case of DoForce 1, but with a double protective coat.

① the carrying element of a PES roundsling are endlessly laid, high quality polyester fibre yarns. With the number of these fibre yarns grows the lifting capacity of the Dolezych roundslings.

② The protective coat of seamless woven and impregnated polyester web for the endlessly laid fibre yarns.

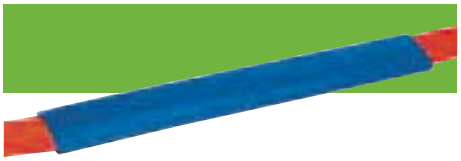
③ On the outer cover durable markings are placed: every 1000 kg of lifting capacity – a sewn in marking stripe and on the opposite side – the printed lifting capacity values.

Construction (example of DoForce 2)



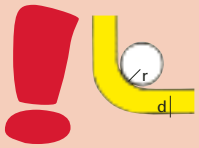
DoForce 1 PES roundslings with single cover

	article No.	liftig capacity in kg **regular**	price per 1 m effective length L1 **EUR**	price per any add. 0,5 m effective length L1 **EUR**
	0514 0512	1000	6,90	2,00
	0514 1012	1500	8,00	2,40
	0514 1512	2000	8,70	2,60
	0514 3012	3000	11,50	3,70
	0514 4512	4000	14,30	4,60
	0514 5512	5000	17,90	5,50
	0514 6012	6000	21,00	6,60
	0514 7512	8000	25,30	8,70

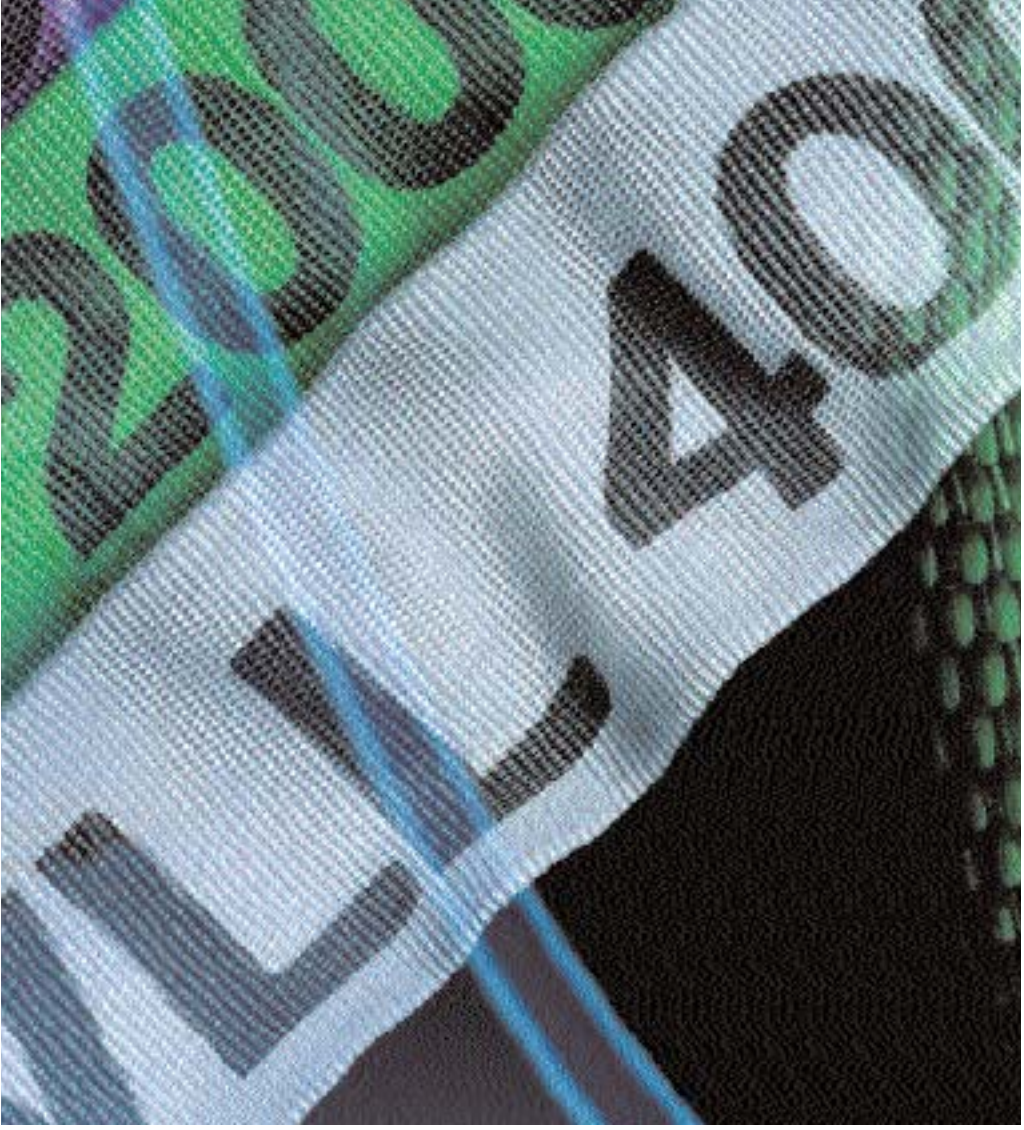


article No.	abraison protection tubes acc. to **pict. 3 & 4** for roundslings with WLL in kg	**pict. 5 & 6** for roundslings with WLL in kg	price per meter **EUR**
5500 0040	500/1000	–	3,40
5500 0060	1500/2000	–	3,70
5500 0070	500/1000	–	4,40
5500 0080	1500/2000	3000	5,10
5500 0100	3000	4000	5,65
5500 0120	4000	5000/6000	7,95
5500 0150	5000/6000	8000/10000	10,25
5500 0160	–	12000/15000	11,15
5500 0180	8000	20000	14,65
5500 0200	10000/12000	25000	18,35
5500 0240	15000	–	28,30
5500 0300	20000/25000	–	43,40

article No.	abraison protection tube acc. to **pict. 3 & 4** for roundslings with WLL in kg	**pict. 5 & 6** for roundslings with WLL in kg	price per meter **EUR**
5500 2050	–	500/100	5,95
5500 2065	–	1500/2000	7,20
5500 2070	500/1000	–	8,10
5500 2080	1500/2000	3000	9,45
5500 2100	3000	4000	10,60
5500 2120	4000	5000/6000	12,30
5500 2150		8000/10000	12,90
5500 2160	5000/6000	12000/15000	13,30
5500 2180	8000	20000	15,00
5500 2200	10000/12000	25000	16,00
5500 2250	15000	–	27,00
5500 2300	20000/25000	–	30,00



Protection against sharp edges
... everything what refers to the subject abraison and edge protection, i.e. to protective hoses, firm coatings, impregnation and special web constructions you may find on pages 32 – 41.



Roundslings with double cover

DoForce 2

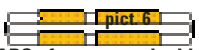
DoForce 2 PES roundslings with double cover

article No.	lifting capacity in kg **regular**	price per 1 m effective length L1 **EUR**	price per any add. 0,5 m effective length L1 **EUR**
0514 0522	1000	8,10	2,40
0514 1022	1500	9,50	3,00
0514 2522	2000	10,20	3,30
0514 3022	3000	13,10	4,40
0514 4522	4000	15,70	5,30
0514 5522	5000	19,70	6,80
0514 6022	6000	23,10	7,90
0514 7522	8000	29,60	9,80

ARS going through

ARS of two parts

ARS of one double part



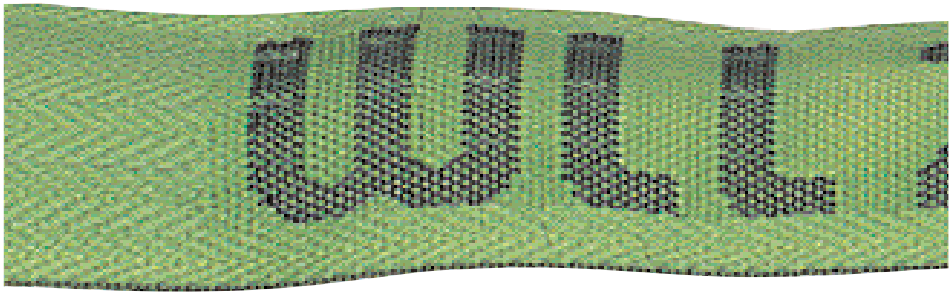
ARS of two parts double

article No.	abraison protection hoses acc. to **pict. 3 & 4** for roundslings with WLL in kg	**pict. 5 & 6** for roundslings with WLL in kg	price per meter **EUR**
5500 0040	500/1000	–	3,40
5500 0060	1500/2000	–	3,70
5500 0070	500/1000	–	4,40
5500 0080	1500/2000	3000	5,10
5500 0100	3000	4000	5,65
5500 0120	4000	5000/6000	7,95
5500 0150	5000/6000	8000/10000	10,25
5500 0160		– 12000/15000	11,15
5500 0180	8000	20000	14,65
5500 0200	10000/12000	25000	18,35
5500 0240	15000	–	28,30
5500 0300	20000/25000	–	43,40

article No.	abraison protection hoses acc. to **pict. 3 & 4** for roundslings with WLL in kg	**pict. 5 & 6** for roundslings with WLL in kg	price per meter **EUR**
5500 2050	–	500/100	5,95
5500 2065	–	1500/2000	7,20
5500 2070	500/1000	–	8,10
5500 2080	1500/2000	3000	9,45
5500 2100	3000	4000	10,60
5500 2120	4000	5000/6000	12,30
5500 2150		8000/10000	12,90
5500 2160	5000/6000	12000/15000	13,30
5500 2180	8000	20000	15,00
5500 2200	10000/12000	25000	16,00
5500 2250	15000	–	27,00
5500 2300	20000/25000	–	30,00

Roundslings with woven in lifting capacity

DoWeb

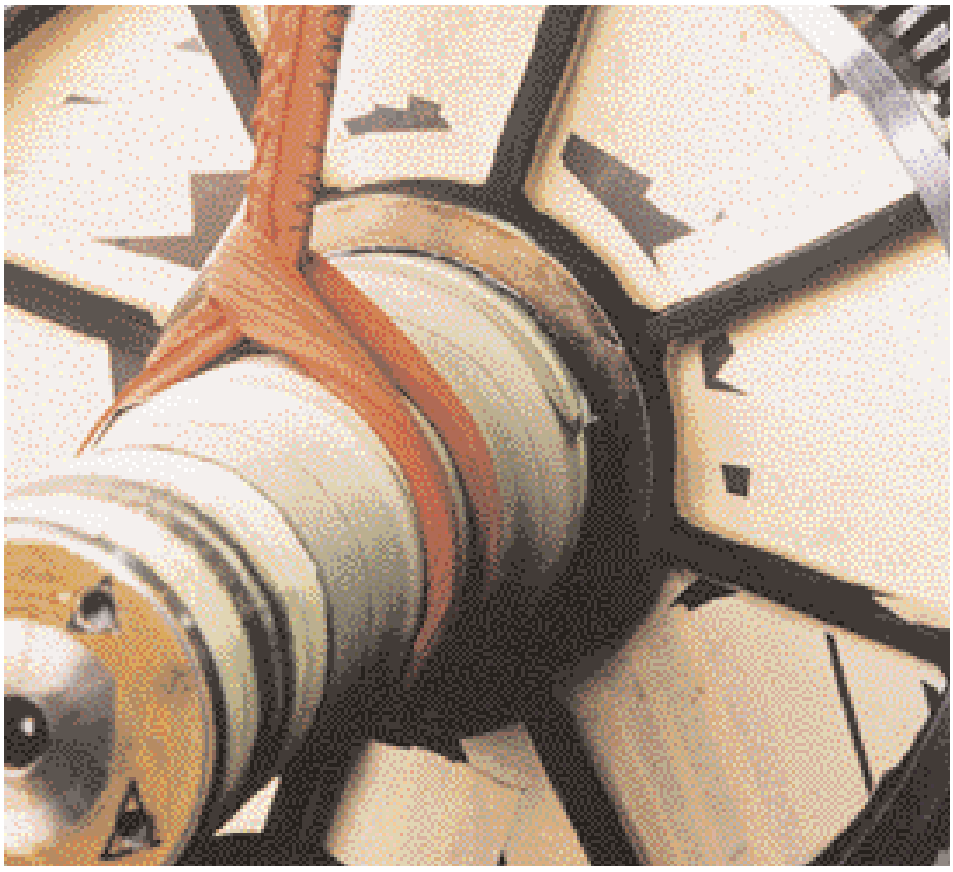


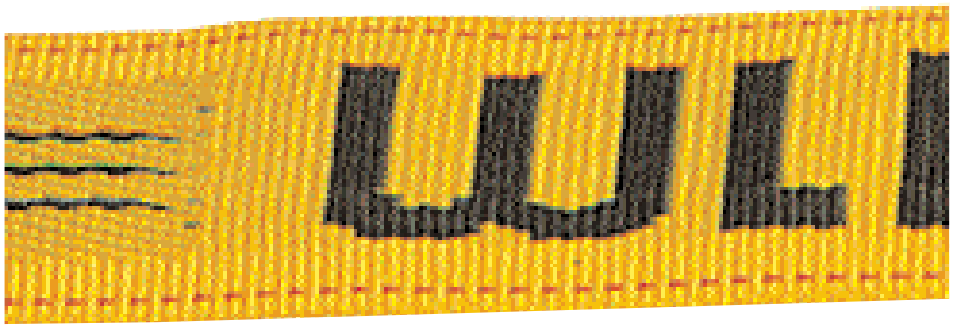
DoWeb roundslings of PES with woven in lifting capacity

article No. in kg	lifting capacity length L1 **regular**	price per 1 m length L1 **EUR**	price per any add. 0,5 m length L1 **EUR**
0514 0532	1000	10,85	3,15
0514 1032	1500	13,10	4,10
0514 1532	2000	14,10	4,55
0514 3032	3000	17,95	6,90
0514 4532	4000	21,10	9,10
0514 5532	5000	26,50	11,05
0514 6032	6000	30,70	12,30
0514 7532	8000	40,00	19,50

DoWeb has established itself during long lasting practice and these slings have gained a fixed position when textile slinging equipment has to work under extremely conditions.

The narrow, abraison resistant hose with woven-in tons stripe-indicating the WLL - and the minor wrinkling of DoWeb make this sling to a long-life produkt.





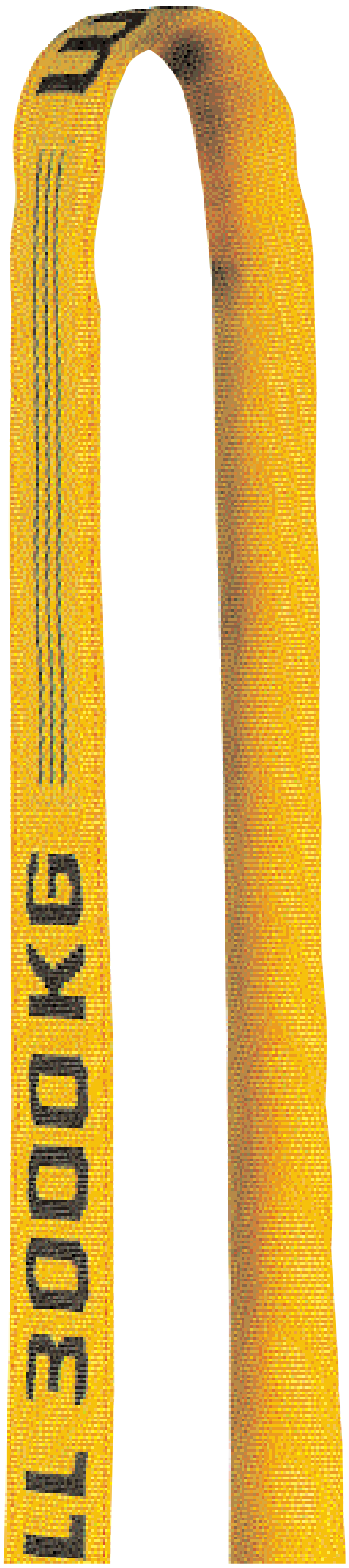
Top class roundslings with woven in lifting capacity

DoPremium

The DoPremium roundsling is the effect of optimization of our all up till now offered qualities as regards abrasion resistance, their width, tenacity, creation of folds, life and safety coding. The roundsling jacket - the excellent DoWeb, became subject of further development. **The improved web construction** offers still more protection against abrasion and it distinctly improves the handling, because the creation of folds has been reduced to the minimum.

According to a standard, the roundsling must be withdrawn from use when the jacket is damaged in such a degree that the fibre alignment becomes visible. As compared with other roundslings the DoPremium quality offers **a definitely longer life**, because the thickness of a cover can be compared with the one of a lifting belt.

Additionally, the DoPremium roundsling, apart from stripes indicating the tonnage (one stripe per one ton of lifting capacity) has **woven in data on lifting capacity** in form of figures. The stripes may easily disappear in case of belts applied on angular loads. Characters can not get worn out. These roundslings distinguish themselves also by the **compact construction, the optimum width of their surface of contact** under the weight of load and by their top desing. With the new DoPremium we offer a product which, as it has been proved, combines all the features of an everlasting and technically safe slinging product of high quality and calling it **"super sling"** is fully justified. A new technology for still higher safety!



DoPremium roundslings of PES

	article No.	lifting capacity in kg regular	price per 1 m effective length L1 EUR	price per any add. 0,5 m effective length L1 EUR
	0514 0552	1000	11,75	3,60
	0514 1552	2000	15,60	5,30
	0514 3552	3000	20,05	8,15
	0514 4552	4000	23,65	10,65
	0514 5522	5000	29,95	12,95
	0514 6052	6000	37,60	15,05
	0514 7552	8000	50,65	24,50

Heavy duty roundslings for up to 100 t and more...

DoMega

DoMega

We are manufacturing heavy duty roundslings with a lifting capacity up to 100 t in any required length. The advantages for lifting heavy loads are obvious: their own weight is definitely smaller than that of chains and ropes and the roundslings are specially useful for the protection of sensitive loads.

When in heavy weight ranges the loads appear to have sharp edges, the DoMega roundslings must be equipped with respective edge protections. When all precautions will be taken eg. selection of the type of slinging, or correct positioning of the edge protection / -s then DoMega surely will prove to be the best.

DoMega heavy duty roundslings of PES

article No.	lifting capacity in kg regular	minimum effective length mm	price per 1 m effective length L1 **EUR**	price per any add. 0,5 m effective length L1 **EUR**
0514 8012	10000	1000	45,90	17,55
0514 9112	12000	1000	65,50	21,55
0514 9312	15000	1500	67,05	27,55
0514 9512	20000	1500	87,15	34,55
0514 9812	25000	2000	100,05	39,35
0514 9912	30000	2000	115,00	45,50
0514 9962	40000	2000	140,00	63,20
0514 9922	50000	3000	170,00	73,00
0514 9932	60000	4000	255,00	101,00
0514 9942	80000	5000	316,00	133,50
0514 9952	100000	6000	397,00	158,20

Please request for special production exceeding 100 t!

Save on weight – but not on lifting capacity!

Tare weights of slinging equipment:

Examples for comparison:
lifting capacity 100 t 20 m usable length (40 m length in perimeter)

lifting capacity in kg regular	lifting capacity in kg double	article No.	standard width of mat* mm	price per 1 m **EUR**	price per any add. meter **EUR**
2000	4000	0514 1562	200	23,90	15,35
3000	6000	0514 3062	200	32,35	22,00
4000	8000	0514 4562	300	36,00	27,60
5000	10000	0514 5562	300	45,00	30,15
6000	12000	0514 6062	400	56,60	38,60
8000	16000	0514 7562	400	68,00	66,50
10000	20000	0514 8062	500	115,00	87,50
12000	24000	0514 9162	600	164,00	108,00
15000	30000	0514 9362	600	192,00	138,00
20000	40000	0514 9562	750	218,00	173,00
25000	50000	0514 9862	750	250,00	198,00
30000	60000	0514 9872	900	384,00	276,00
40000	80000	0514 9992	900	436,00	346,00

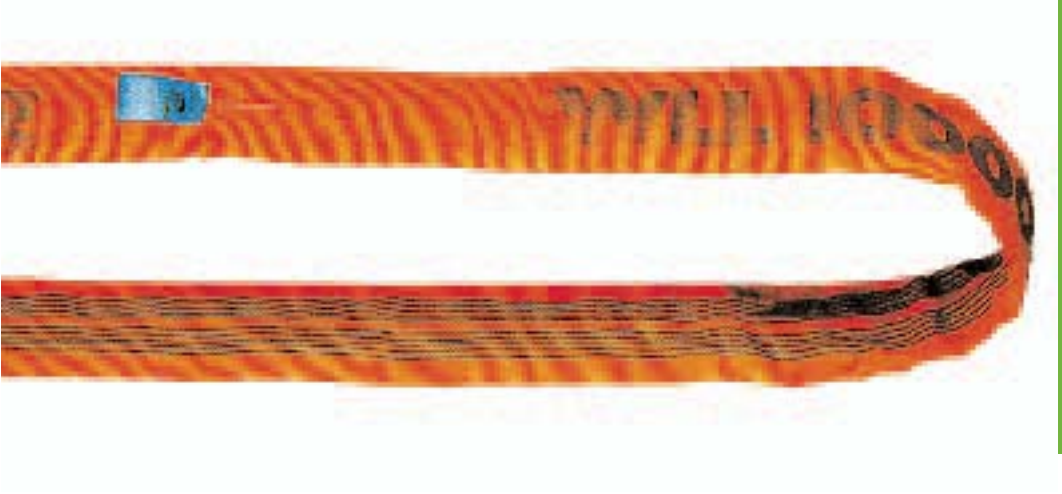
*** Special production is possible in any width of mat. Pls. inquire.**

Processing:

The Dolezych DoForce 1 roundslings are stitched together with a wide polyester belt into a mat. This production is based on the DIN EN 1492-2 standard.

The Advantages:

The DoColor lifting mats are available with higher lifting capacities than the lifting belts and in case of same lifting capacity they have a wider surface of contact than the lifting belt e.g. for sensitive loads (rolls etc.).



Heavy duty roundslings with the Klett-locking system

DoMega

Heavy duty roundslings with the hook + loop faster system

Their advantages:

- possibility of controlling also the carrying yarn inside by just opening the jacket
- possibility of exchanging the cover – directly on the spot or at our facilities - e.g. when heavily dirtied or damaged
- high comfort when inspected
- possibility of faster repairs
- reasonable repair
- permanent possibility of evaluating the roundsling's production capacity

DoMega heavy duty roundslings of PES with hook + loop faster

article No.	lifting capacity in kg regular	minimum effective length mm	price per 1 m of effective length L1 **EUR**	price per any add. 0,5 m of effective length L1 **EUR**
0514 8012	10000	1000	45,90	17,55
0514 9112	12000	1000	65,50	21,55
0514 9312	15000	1500	67,05	27,55
0514 9512	20000	1500	87,15	34,55
0514 9812	25000	2000	100,05	39,35
0514 9912	30000	2000	115,00	45,50
0514 9962	40000	2000	140,00	63,20
0514 9922	50000	3000	170,00	73,00
0514 9932	60000	4000	255,00	101,00
0514 9942	80000	5000	316,00	133,50
0514 9952	100000	6000	397,00	158,20

DoSL-heavy duty suspension WLL 100 t

article No.	lifting capacity	weight kg	price per piece **EUR**
0321 8100	100 t	400	please request

The bolt for hanging (1) gets centred itself in the crane hook, The carrying bolt diameter (2) 300 mm.

Prices for bigger dimensions and higher lifting capacities – please inquire!

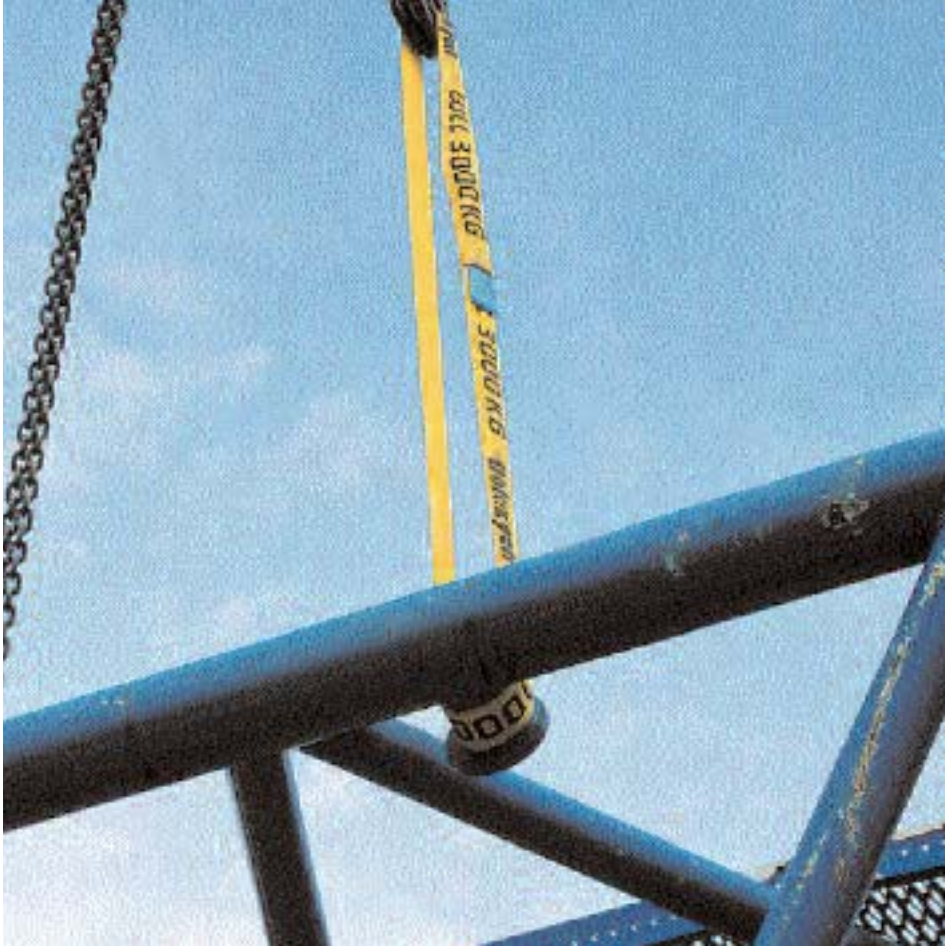
Roundslings with DoStabil PU impregnation

The unique concept is based on the specially strong **impregnation of the roundsling cover** with polyurethane. Thanks to this the slings are becoming humidity proof and get anti-slip properties. This adds to the protection of the carrying fibre alignment. The sling becomes stiffer and stronger than in case of the not impregnated ones, but is equally light and very flexible in use. The impregnation, following this special process, does not penetrate the carrying fibre alignment inside. With printed figures of lifting capacity plus additionally – the ton stripes.

DoStabil roundslings of PES with PU impregnation

article No.	lifting capacity in kg regular	pricer per 1 m of effective length L1 **EUR**	price per any add. 0,5 m of effective length L1 **EUR**
0514 0542	1000	11,05	3,20
0514 1042	1500	13,30	4,15
0514 1542	2000	14,35	4,60
0514 3042	3000	19,40	6,95
0514 4542	4000	21,50	9,15
0514 5542	5000	26,90	11,75
0514 6042	6000	33,85	12,35
0514 7542	8000	40,65	19,85

The DoStabil roundslings with PU impregnation are the best product for U-shape application. The bound mode should rather be avoided!



Roundslings of polyamide / polypropylene

DoProp DoLux

Roundslings of polyamide and polypropylene ar made specially for you. Please order them early possible!

DoLux roundslings of PA (polyamide)

Depending on their application, it is possible that they will get in touch with lyes. Because in such a case the roundslings, which are made of polyester fibre, may get destroyed due to chemical reactions, Dolezych have additionally developed the DoLux roundslings for application in contact with lyes. It should be noticed, that the dependence on the concentration of chemicals, on temperature and duration of contact results in varying stability values – please ask Dolezych to inform you of the specific properties!

Their advantages:

- material conditioned very good abrasion resistance and form stable quality of tube
- excellent stability when in contact with lyes.

DoProp roundslings of PP (polypropylene)

Good suitability for application with chemicals. High resistance against acids and lyes, therefore it is possible to apply them when the chemicals are changing. The specific gravity of polypropylene is lower than that of polyester or polyamide – thus the roundsling is less heavy. A roundsling of PP of same lifting capacity is more voluminous than the one of PES or PA, because the individual fibre of the same strength is thicker.

We would be pleased to inform you about futher materials e.g. Kevlar or Dyneema

Roundslings of polyamide (DoLux) and of polypropylene (DoProp)

L1 EUR	article No.	lifting capacity in kg	prices for DoLux per 1m of effective length L1 regular EUR	prices for DoLux per any add. 0,5 m of L1 EUR	prices for DoProp per 1m of effective length L1 EUR	prices for DoProp per any add. 0,5 m of EUR
	0514 002*	500	8,60	2,00	7,60	1,80
	0514 052*	1000	9,55	2,80	8,50	2,40
	0514 102*	1500	11,65	3,60	10,25	3,20
	0514 152*	2000	12,50	3,95	11,00	3,55
	0514 302*	3000	16,90	5,25	14,90	4,60
	0514 452*	4000	18,75	7,25	16,55	6,40
	0514 552*	5000	23,45	7,95	20,75	6,95
	0514 602*	6000	29,45	10,15	26,10	8,95

* Pls. complete the Art.No with the respective roundsling figure: DoLux = 1, DoProp = 3

Black roundslings for the stage and for peformances

The construction of these roundslings is the same as in case of DoForce 1 roundslings. Because of the applied black color it does not correspond with the Euro-color code and therefore it is manufactured “with reference” to the DIN EN 1492-2 standard.
Practically not visible, the black roundslings are applied for stage and performance purposes, for lifting scenes, for keeping, lifting or connecting Easy and universal in application, for fast and reliable mounting by means of connecting links. We can supply any required usable or circumferencial length.

Black roundslings of PES for stage and for performances

article No.	lifting capacity in kg regular	Pprice per 1 m of effective length L1 **EUR**	price per any add. 0,5 m of effective length L1 **EUR**
0514 0562	1000	10,84	3,10
0514 1562	2000	13,09	4,10
0514 3062	3000	14,06	4,55

Disposal ?

All products may be disposed of in a friendly way to the environment!

Materials

polyester polypropylene polyamide

3 materials – 3 excellent qualities for woven lifting slings and roundslings

Production

Both for the production of polyester fibre, as well as of that of polyamide and polypropylene the melting and spinning process is applied. The basic materials is a granulated product. This granulate is melted and then pressed through spinning nozzles, which produce individual thin threads – the polyester, polyamide or polypropylene fibre. This process is connected with energy consumption. The energy consumption is the smaller, the smaller the melting point, which means that during the production of polypropylene fibre less energy is used than in case of polyester or polyamide fibre production. On the other hand, the application under warm or heat conditions, is disadvantageous to polypropylene. In such a situation polyester and polyamide stand higher loads. All three materials may be disposed of in a friendly to the environment way. Both the disposal of wastes in a wastes yard as well as applying heat processing to the wastes pose no problems. Under thermal processing only carbon dioxide and water are produced.

Equipment

Belt strip for woven lifting slings and tubes for roundslings made of polyester and polyamide are usually equipped with polyurethane (PU). The dyeing together with the necessary polyurethane equipment takes place in a process of pre-drying at ca. 130-160°C, while thermal expansion, which follows – at min.130°C, usually between 160°C and 200°C.For the production of polypropylene webbings and covers spinning nozzle-dyed fibres are used.Due to a low melting point of PP a subsequent dying is impossible.
For heightening the abrasion resistance of PP,Acrylat or a mix of Acrylat and PU a temperature of 60° to100°C is used.If the material is not equipped with abrasion resistance,polyamid is ahead of polyester and PP is on the third place. It is not easy to evaluate materials provided with abrasion resistance properties, because with respect to both PES, PA and PP, it depends also on the quality of component materials and on the provided materials, as well as on the temperature and process influence. With respect to abrasive process , Polyester and polyamide are close to each other, while polypropylene is not very well.
The fibre in the laid roundslings are usually not dyed and white and they do not have to be equipped with abrasion resistance properties, because the cover takes over the abrasion resistance properties. This applies both roundslings of polyester, as well as of polyamide and polypropylene.

Practical application

Ready made lifting belts and roundslings of these three materials differ during application in their expansion properties and their different resistance to chemicals and temperatures. Roundslings of polyester have the lowest expansion with 1 –1,5% , just in front of propylene with 2,5 – 3% and polyamide – with 3%. The expansion of roundslings is mainly an elastic expansion, because the inner texture of a roundsling is not woven but laid. The expansion of the woven lifting slings consists of a structural and an elastic expansion. The structural expansion is the web's settling process during the lifting slings gets a lasting extension. This web settling process concludes with a few instances of charging the lifting sling to the limits of its lifting capacity. The elastic expansion means the extension of the lifting sling under load. After using the first load (and in this connection – the longest extension of the lifting sling) and its following unloading, the expansion moves entirely back. After a few repeated load applications and their unloading, the expansion "settles", i.e. the distance of expansion and with it the length of the lifting aplliance remain within their range of lifting capacity approximately constant. Woven lifting slings with an optimum expansion, are during the process of their manufacturing submitted to a very expensive process of expansion and with their lifting capacity they have a total expansion (structural and elastic expansion) of approximatelx 3-5% (PES), 5-7%(PA6) resp. 4-6% (PP).
The structural expansion depends on the type of texture, on the strength of web, on type of used material and the process of production. We will willingly advise you !
When comparing the temperatures of application of the three materials, it becomes evident that both polyester and polyamide may be applied under the heat of up to 100°C, while polypropylene - within its limit of 80°C according to the standard. Ask us for advice about possibilities of application under different ranges of temperature.

We would like to point out that the using with chemicals, should take into consideration that polyester is very acid resistant, polyamide – lye resistant and polypropylene – may be used both with acids and lyes .However, always observe the very concrete conditions of application. Just for any case, you have to pay attention to acids and lyes with respect to concentration, to the exposure of that the temperature and to the time of exposure, there exist considerable risks regarding the resistance constancy
We shall willingly advise you in this respect.

Comparison of technical properties

	PES	PA6	PP
Specific weight g/cm	1,38	1,14	0,91
expansion at the lifting capacity of roundslings of woven lifting belts	1 - 1,5 %	3 %	2,5 - 3 %
(optimum expansion)	3 – 5 %	5 – 7 %	4 – 6 %
shape constancy (woven, equipped lifting slings)	very good	very good	very good
abrasion resistance	very good	very good	good
humidity absorption in % at:			
65% of air humidity	0,2 – 0,5	3,5 – 4,5	0
100% of air humidity	0,9 – 1	6 – 9	0
melting range	250 – 260°C	215 – 220°C	160 – 175°C
temperature of application acc. to DIN/UVV	-40/+100°C	-40/+100°C	-40/+80°C
general constancy under chemicals:			
acids	good	sufficient	very good
lyes	sufficient	very good	very good

Application of chemicals

Depending on concentration, on temperature of application and duration of contact even the products of polyester, polyamide and polypropylene may be strongly affected ! In case of doubts on your side, please let us know your conditions of application so, that we can recommend you the adequate material, or calculate the necessary lifting capacity dimensioning.

Please clean/ or rinse lifting slings and roundslings with clean water without any chemical additives !

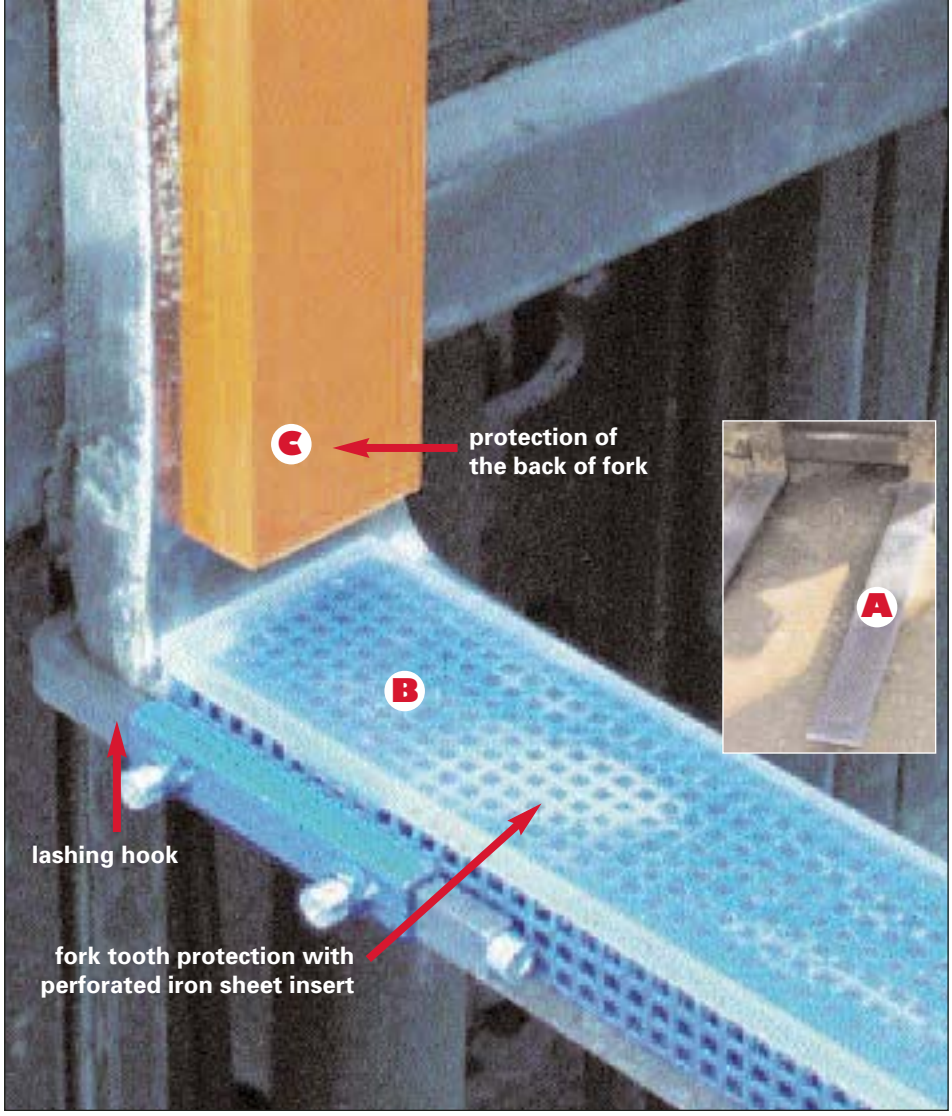
forklift-tines protection

Dolex

Forklift-tines protection made of high quality polyurethane elastomer,
Hardness: ca 80 Shore
Tear expansion: 450% (DIN 53 504)
Tear resistance: 20 N/mm (DIN 53 515)
Abrasion: 60 mg (DIN 53 516)

Typical examples of usage:

Transport of
- casting elements
- stainless steel sheets
- varnished or enamelled containers
- turning elements
- any parts which have to be protected during transport against scratches and bucklings

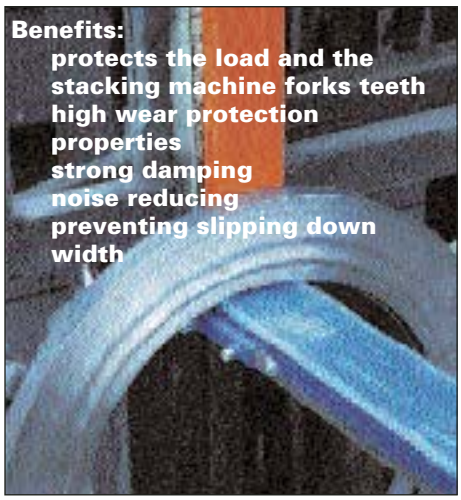


Forklift-tines protection shoe with a perforated insert, 10mm thickness of layer

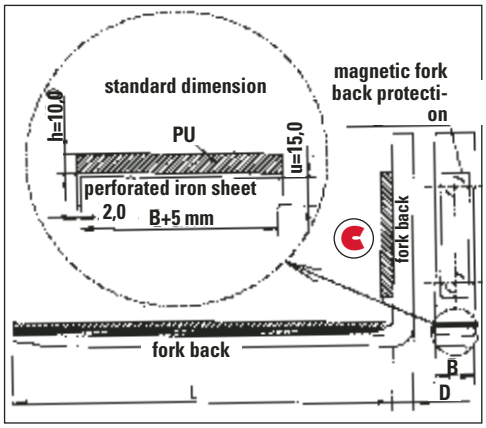
width mm	price/ 1.000 mm length EUR	price/any add. length of 200 m EUR
80	68,51	9,72
90	73,63	10,23
100	78,74	10,74
110	83,85	11,25
120	88,97	11,76
130	94,59	22,27
140	99,70	12,78
150	104,82	13,29
Fork back protection /pce		27,61
Lashing hook/ pce		26,23

Types

A) non removable fixed coating, 10 mm thick on the upper surface – therefore the forks must be sent to our plant (pls. inquire for prices.)
B) shoe for putting on, U-shaped edges, 10 mm thick on the upper surface, at your choice – with lashing hooks to prevent slipping down from the fork tooth
C) As fork back protection we recommend a bumping protection of PU-elastomer foam, furnished with 2 round magnets (dimensions: ca 425 x 70 x 30 mm)



Please take a copy of this coupon, fill in the required dimensions and require an offer.



Dolex stacking machine fork tooth protection article	quantity (pcs) Pls fill in!
A)Fork tooth- firm coating without an inserted perforated iron sheet	
B)Fork tooth protective shoe with the inserted perforated iron sheet	
C)Fork back protection, without an inserted magnetic perforated iron sheet	

Dolex stacking machine fork tooth protection dimensions	Pls fill in!
Tooth length L (mm)	
Tooth width B (mm)	
Tooth thickness D (mm)	
Required thickness of coating H (standard 10 mm)	
required U edge depth (standard 15 mm)	
lashing hook for protective shoe	

Sender

Company/Dept.

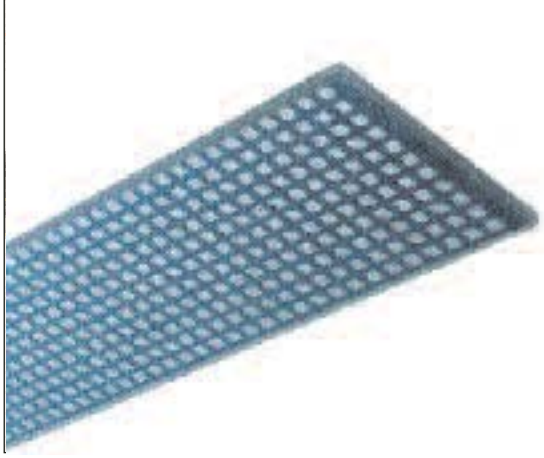
name/surname

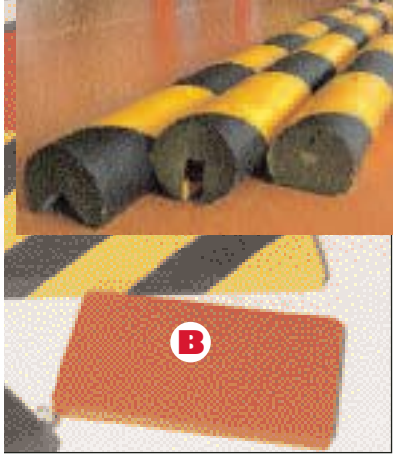
Street No.

Place

Phone

Fax





Rebound protection

Dolex

DoLex rebound protection – for your safety!

A) of high quality polyurethane elastomer of ca 80 Shore
B) elastomer foam
C) integral foam

... strong damping
... noise reducing
...for preventing sensitive parts against impactat at or onto them
...preventing slip-ping down

A) Heavy load rebound protection with perforated iron sheet insert, extremely abrasion and cutting resistant

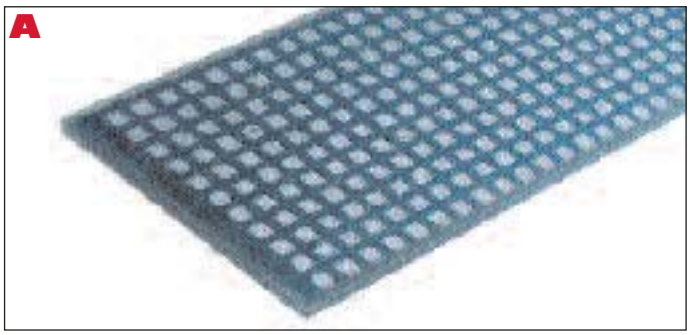
consists of a transparent PU-elastomer of varying thickness and width in which a perforated iron sheet inlay. This inlay prevents an excessive swelling and expansion of polyurethane. Heavy load rebound protection is used e.g. for coil arrangement, coil hook placing, as protection of load bed for pipes, steel rods etc.
Production length 2m width up to 300 mm, thickness up to 50 mm.

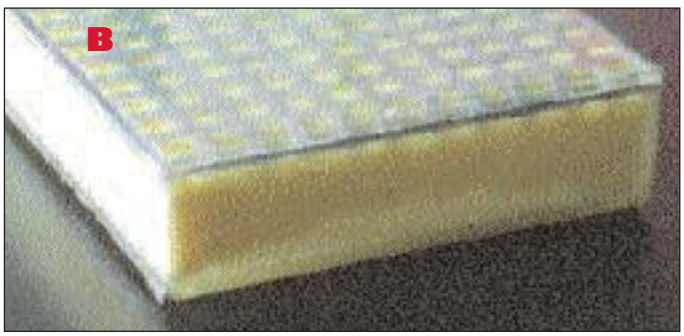
B) Impact protection with a PU covering layer, elastomer foam core and perforated iron sheet insert

A valuable alternative to the heavy load rebound protection. Because of its low structural stability – suitable as impact protection for surfaces of low pressure load. Max. load 1,5 t.

Also suitable as a valuable alternative (without the inlay of perforated iron sheet) for coil hooks for coil arrangement.
Plate weight max.5 kg
Plate dimensions: max. 600 x 300 x 30 mm.

Access protection – please request





Heavy load rebound protection

width mm	article No. thickness 10 mm	price per meter EUR	article No. thickness 20 mm	price per meter EUR	article No. thickness 30 mm	price per meter EUR
50	5598 9918	33,18	5598 9923	44,23	5598 9929	55,83
100	5598 9919	48,98	5598 9924	71,12	5598 9930	94,28
150	5598 9917	64,78	5598 9925	98,47	5598 9931	132,17
200	5598 9920	80,58	5598 9926	125,32	5598 9932	170,62
250	5598 9921	96,38	5598 9927	152,21	5598 9933	209,58
300	5598 9922	112,18	5598 9928	179,57	5598 9934	247,52

Standardlänge: 2 m, andere Größen bitte anfragen

Impact protection

article No.	length mm	width mm	thickness mm	price/piece EUR
5598 9935	200	150	10	12,12
5598 9936	500	200	20	32,67
5598 9937	600	250	30	57,42
5598 9938	430	70	30	33,69

Warning profiles

- self-adhesive
- easy to apply

Rebound protection warning profiles of PU- integral foam

The Dolezych warning profiles are signalizing hazardous places and effectively decrease the danger. Protections for corners and edges protect your property in busy warehouses and production facilities, they prevent injuries resulting of impacts - even when suddenly light goes out (long lasting luminescence execution). High quality protection elements of flexible and ageing resistant polyurethane foam. Made with application of UV resistant signal paints according to DIN 4844 yellow/black or long shining luminescence lux-white / black according to DIN 67 510.

Temperature resistance from - 40°C up to +90°C

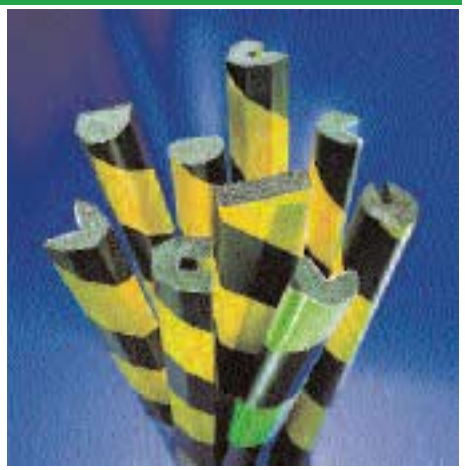
Fields of application:

- internal and external
- on machines, vehicles, on mobile equipment, on walls, binders and passages
- in warehouses, in dispatch and production fields, on internal factory transport routes

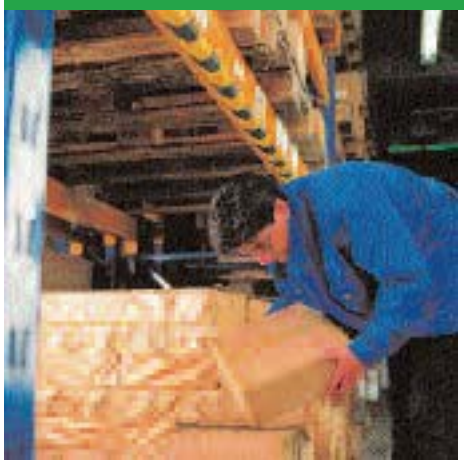
Easy to apply:

The self-adhesive elements stick fast and sure to smooth and cleaned, dust free and degreased surfaces, corners and edges. The profile protection elements just have to be put onto the profiles to be protected; under extreme load - stick on additionally.

Length of standard elements 1000 mm.



Edge / profile protection



trapezium circle corner

circle with a groove — trapezium with a groove

Please inquire about prices!

Pipe protection

rectangle

trapezium

circle

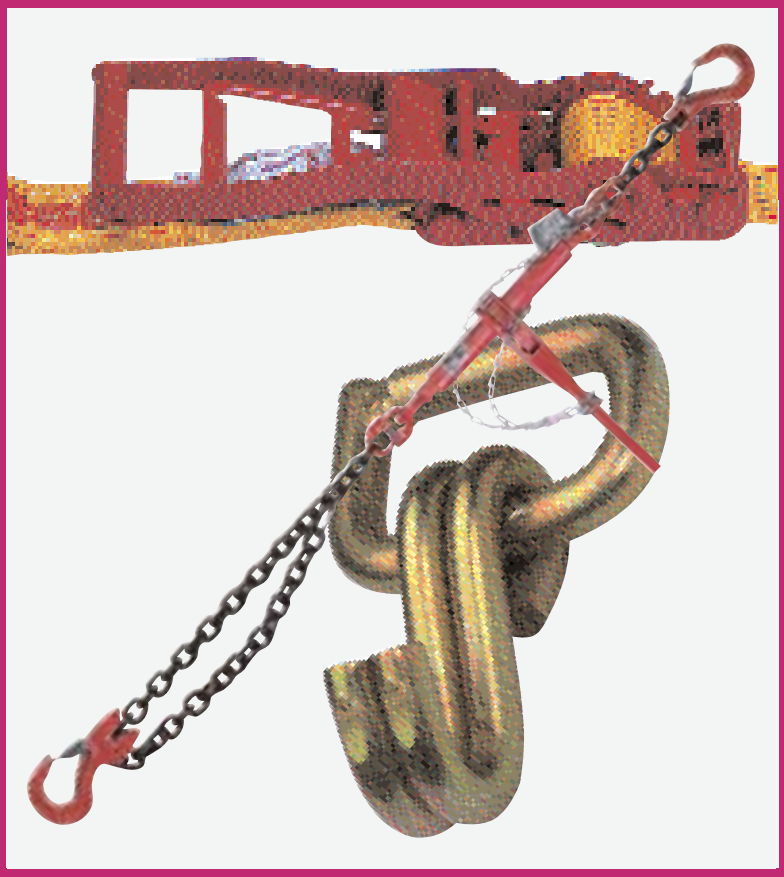
Please inquire about

arc

Type 40 for pipes Ø 30-50mm
Type 60 for pipes Ø 50-70mm
Type 85 for pipes Ø 70-100mm

Please inquire about prices!

Load protection



Lashing belts

Lashing chains

Lashing ropes

Lashing points

Anti-Gliss mats

Inner load protection

Load protection: Responsibility Legal bases

DoZur

Steel bar in the windscreen

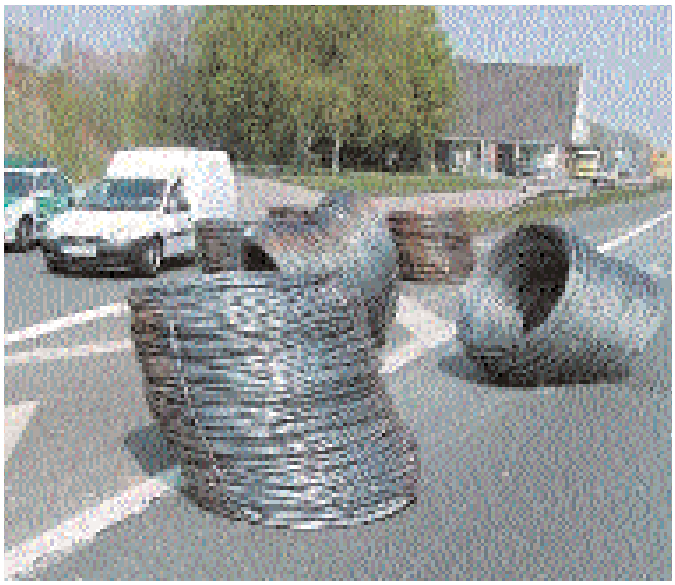
Why load protection?

Loads must be arranged in such a way that under a "regular" drive and road conditions they will not slip neither totally, nor partly, they will not fall down nor will become the reason for a truck's overturning.

When a truck drives with a load not properly secured or even not secured at all, the load will be slipping or tossed always, when the protective and/or holding back forces will be smaller than the respective force of acceleration – when the truck will start moving , the force of retardation - when braking, the centrifugal force - when driving a curve, or the vertical force – when driving on uneven road.

A load must be, as a matter of principal, secured against the acting of the a.m. forces.

Legal foundations for load protection on trucks



And what now?

1. Responsible persons and their scope of responsibility

1.1 Driver

In case of a road accident or when a load will fall down, the driver will be the first person to be questioned as the responsible one, even when a truck with improper load protection will be stopped just for control without causing a road accident. A general regulation of his duties with respect to load protection has been formulated under **§§ 22 and 23 of StVO** (German road traffic statute).

The duties of the driver (truck driver) are:

- Giving instructions to loading personnel regarding load arrangement (work safety)
- Prior to starting driving - examination of load protection measures (transport safety) and of load arrangement
- Adapting the mode of driving to the load. "The driver is obliged to drive in such a way, that he will be able to safely control the truck. He is obliged particularly to consider the conditions of the road, traffic, visibility and weather, the drive properties of the truck, as well as the influence of load." (BGV D 29) (German Law on Road Traffic).
- Control of load protection during transport and, when necessary, correcting it.

According to § 23 of StVO is the driver obliged to check the load protection measures always, when a different person has loaded the truck. When necessary, according to § 23 (1) of StVO he is obliged to refuse driving the truck however, after a prior contact with his company owner.

During the drive it is the driver's matter to avoid road accidents including accidents caused by not adequately fixed load. It is obvious that the driver is required to adapt his mode of driving to the circumstance that his truck has been loaded in a certain way. He must realize the role of dynamic forces which are influencing the truck due to the load arrangement. So a protected load with a high centre of gravity, e.g. paper reels, influences the truck's motion in a different way than a protected load with a low centre of gravity, e.g. iron sheets. A driver who takes over a loaded truck from another driver, bears the same responsibility.

Moreover, safe loading and unloading is subject of work safety regulations (UVV) of different branch associations, e.g.of the Association of Car Owners (UVV "Cars" VBG 12) (§ 37 (1), (3), (4).

1.2 Car owners, undertakers, forwarding agents, drivers

Such persons may be dealing both with professional forwarding of goods as well as within any other field of activity, e.g. building and construction, trade, internal company transport etc., which means that

load protection is a task for everybody who participates in road traffic.

The responsibility of the truck owner has a legal base in the §§ 30 (1) and 31 (2) of StVZO. Offences against it are subject to § 69a para.5, No.3 StVZO / § 24 StVG.

Car owner's duties

- Traffic safe loading and load protection (§ 23 StVO – as above)
- Placing at disposal an adequate car (e.g. the guidance of VDI No.2700)
- Training and every-day supervision of drivers, of truck senders and of all employees dealing directly or indirectly with truck management, with respect to the road traffic safety of vehicles and observance of safe loading principles.
- Observance of UVV "Cars" § 22 (1) (VBG 12) or of other relevant UVV on the nature of truck superstructures,on superstructure elements, equipment and aids for load safety purposes.
- Maintaining the operational safety of trucks (e.g. the maximum weigths, load arrangements).

1.3 Loader, sender, loading

Load protection: Responsibility Legal bases

personnel

One can not conclude from the StVO and StVZO regulations being in force, who is obliged to load. This results of the civil law or of contracts resp. on the conditions of transport. As presented in chapters 1.1 and 1.2, the driver and truck owner are obliged to check if the loaded truck's condition is safe for road traffic, to secure this and when necessary to take correcting measures or, when necessary, to refuse accepting the truck or trailer-truck for transport, as well as to adapt the mode of driving to the particular properties of load. Responsibility for loading is subject to the regulations of the business law code (HGB).

Since July 1st, 98 is the law on new regulations of freight, forwarding and warehousing (Law on the reform of transport regulations – TRG) Busines Law Code, in force. In the HGB § 411 it is the sender responsible for packaging and marking.

HGB § 412 (1) - Loading and unloading :

"As long as of the circumstances or of the habits in road traffic nothing else will follow, the sender is obliged to load, arrange and to lash the good in an appropriate for transport purposes way and to unload it. The driver is obliged to take care of loading meeting the road traffic safety requirements."

In other words, the sender is responsible for taking load protection measures in general however, a compulsory ruling about loading with traffic safety in view (taking protective measures) such as prior to July 1st, 98, does not exist anymore, because circumstances or road traffic habits may take place not only in form of technical devices, but also in form of individual agreements. By means of an individual agreement it will be easier for the sender to commit the entrepreneur to undertake the load protection, because the loader has a stronger position on the market.

However, in general § 411 (1)HGB combined with § 22 (1) StVO create the basis for the sender's obligation for taking load protection measures.

Important details:

It is asserted quite often, that the obligation to load is endangered by HGB because the loading personnel of the sender, in case it would enter the truck for loading or unloading, is not subject to any insurance protection on the side of branch associations. However, employees of companies dealing with the transport of goods, who handle loading and unloading trucks, are always insured against accidents. And it is in fact indifferent, who is obliged to handle the loading: the entrepreneur or his customer.

The sender is obliged to transport the load in a condition meeting the requirements of transport.

This follows indirectly of HGB § 411 and is always required by the jurisdiction. E.g new paint coatings must be dried on parts of equipment, because otherwise the friction coefficient would be too low for an appropriate load protection.

Without an agreement differing in this respect (as above), the loader is responsible for the application of load protection measures for a safe transport. This however, does not release the driver nor the truck owner from the public and legal obligation towards other participants of road traffic to check, prior to starting transporting, the safety measures, to undertake correction when necessary and to undertake controls during the transport. Because the driver is always responsible for loading which is meeting the road traffic safety requirements (keeping the max. pay-load, axial loads, max. truck and load dimensions) according to StVZO and StVO, in order to avoid exceeding e.g. the axial loads, he must give instructions where, on which place on the truck surface the load should be set down.

As regards acceptable load weights, subjects to punishment may be not only the truck owner, the driving personnel, but also the sender and his managing employees, dispatchers, loading foremen and others who are entitled to instruct the driver (e.g. by giving wrong weight data).

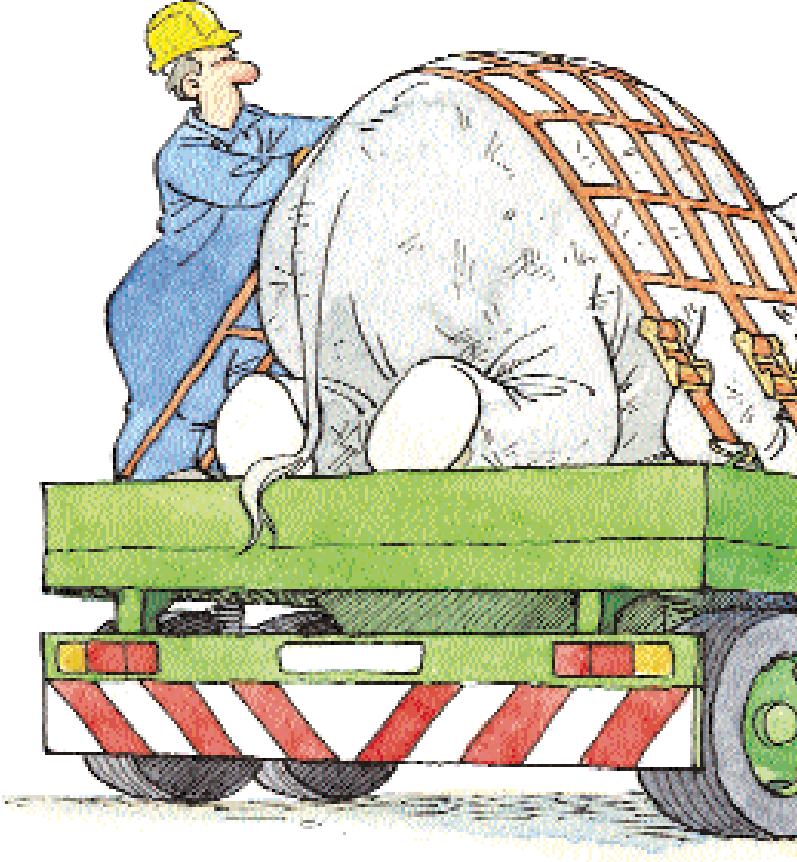
Similarly as the truck owner and driver, also the sender is responsible for his personnel's errors in selection and organization. Road accidents may be avoided through training to the employees, through appropriate organization and clear instructions. Thanks to this, after a road accident avoided may be the charge of possible negligence or even gross negligence with their hard legal consequences.

Through adequate training take care of good education for all involved in the load protection process.

Several times a year, for all who are responsible for load protection, Dolezych organize the well known "Seminars in Dortmund". Dolezych also organize seminars at your facilities. Please address us!

BQH seminars on load protection
Ph.:02 31/82 75 98

Load protection: Products



1. Which products aimed at load protection are available?

Dolezych offer a very wide delivery program of products: lashing belts, lashing chains, lashing ropes and lashing nets with all the necessary accessories – to let your load come safe to its place of destination.

1.1. Lashing belts

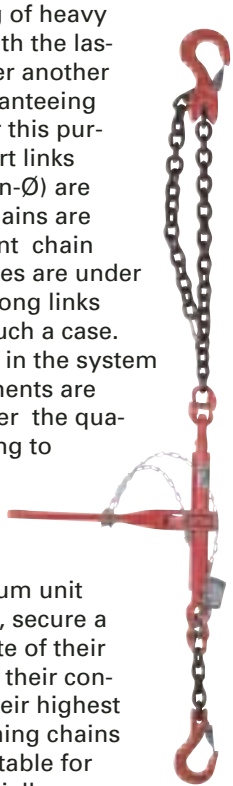
Flexible lashing belts of polyester web according to VDI 2700 page 1-9 and further pages and to DIN EN 12195-2 are very popular due to their easy handling. The lashing belts of polyester make the transport and flow of materials profitable and are recommendable for load protection because they stand high lashing capacitys, are light and surface protecting and have a long life.
By means of lashing belts the loads may be encircled, kept together and an active connection between the transported load and the truck may be created. They are decay resistant, they do not rust, absorb almost no humidity, and are extremely stable and thanks to special impregnation – abrasion resistant. Because of their relatively low weight they are very handy and fast to apply.
Lashing belts are used also for internal factory transport.

When handling lashing belts (as well as lashing chains and wire ropes) the following safety regulations are to be observed:
BGR 500, pos. 2.8 (former VGB 9a 'loading equipment in a hoisting gear production plant'
VDI 2700 page 1-9 and further pages 'Load protection on means of road transport – safety'

Part 1 – calculation of lashing forces
Part 2 – lashing belts of chemical webs
Part 3 – lashing chains
Part 4 – lashing wire ropes

Dolezych have co-operated with the European Standard DIN EN 12195-2 which was published in February 2001, and are the responsible German delegates to the new European standards drafting . This experience gives a guarantee that our products always represent the most up-to-date status.

1.2 Lashing chains

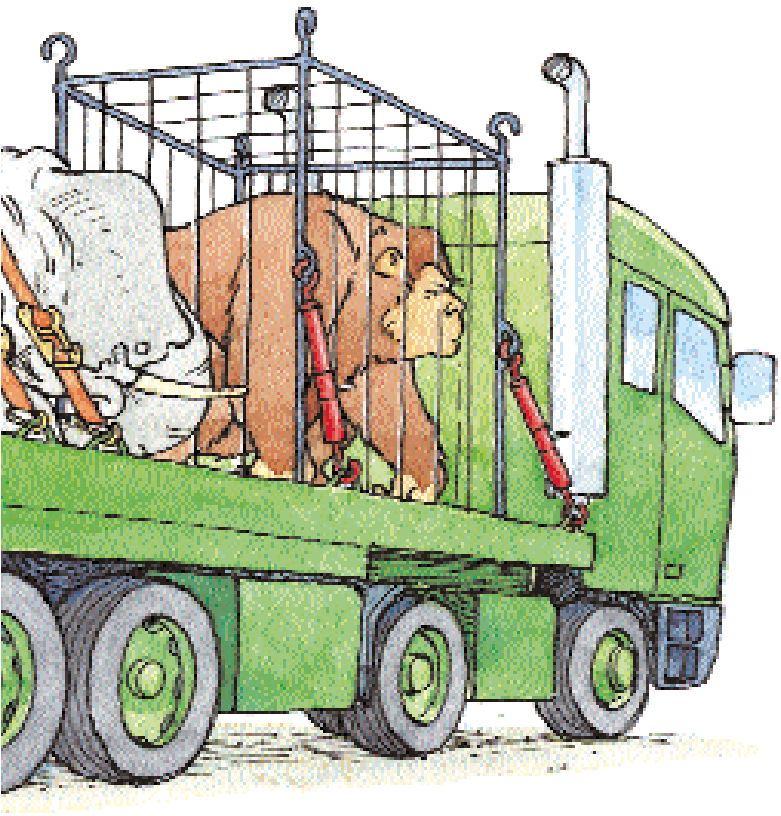


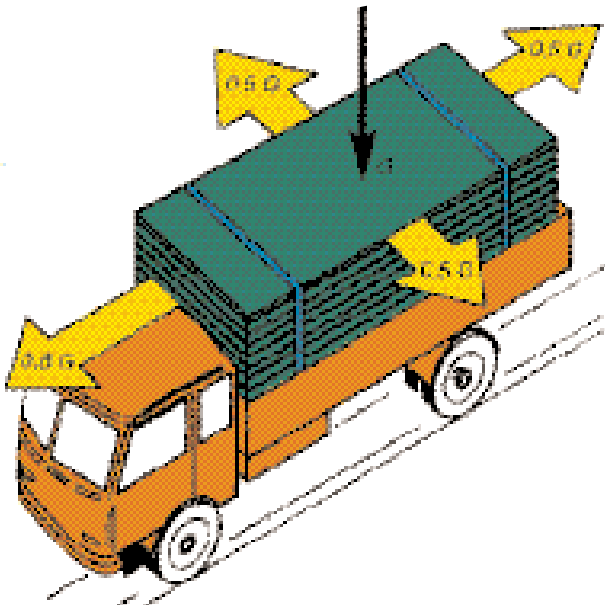
The lashing chains according to VDI 2700 page 1-9 and further pages and to DIN EN 12195-3 are excellent in diagonal lashing of heavy loads and along with the lashing belts they offer another possibility of guaranteeing safe transport. For this purpose chains of short links (division = 3 x chain-Ø) are used. Only such chains are offering an excellent chain support when edges are under charge. Chains of long links would deform in such a case. The lashing chains in the system of repeatable segments are manufactured under the quality class 8 according to DIN EN 12195-3 / 5688 (minimum breaking stress 800 N/mm2). They represent a minimum unit elongation of 20%, secure a long life and in spite of their light construction , their concept is based on their highest efficiency. The lashing chains are particularly suitable for heavy loads, especially on low loading trucks and for diagonal and oblique lashing. When the lashing chains under down lashing are laying on the load then, just for any case definitely edge protection elements should be applied in order to avoid damaging the load by the chains and to let the chain links move freely over the edges. When the edge is of such a nature that the chain can not move over it, then direct lashing should be given preference. With a swivel and a ratchet load tightener, the high quality chains of the quality class 8 and even 10 are excellent in handling.

1.3 Lashing wire ropes

Lashing wire ropes according to VDI 2700, page 1-9 and further pages and to DIN EN 12195-4 are another alternative for excellent load protection. The lashing ropes are flexible, but at the same time good for encircling loads. They are particularly recommendable for loads which may be compressed (like eg. steel mats for building purposes), because there is enough winding capacity on the winch. The lashing wire ropes are suitable for all types of lashing (down lashing, diagonal ,oblique lashing) and together with screw shackles and chain blocks can be well arranged. They are willingly applied when trucks are furnished with rope winches.

Variants of lashing wire rope ends





Pay also here attention to the necessary edge protection.

2. Which forces influence the load during the drive?

2.1 Gravity force

- The 0,8th of load gravity force (e.g. in case of a load of 10 t – still 8 t) is acting horizontally to the front (resulting of braking process)
- crosswise (during the drive on curves) is acting the 0,5th of load gravity force (e.g. in case of a load of 10 t – still 5 t). For loads endangered with overturning the 0,7th of gravity force is necessary.
- horizontally to the back (when starting to drive) is acting the 0,5th of load gravity force (5 t in case of a load of 10 t)
- because of vibrations

and thrusts e.g. on uneven roads, a vertical load acceleration takes place being an equivalent of 1 G of gravity force (example: 10 t).

2.2 friction force, friction coefficient µ

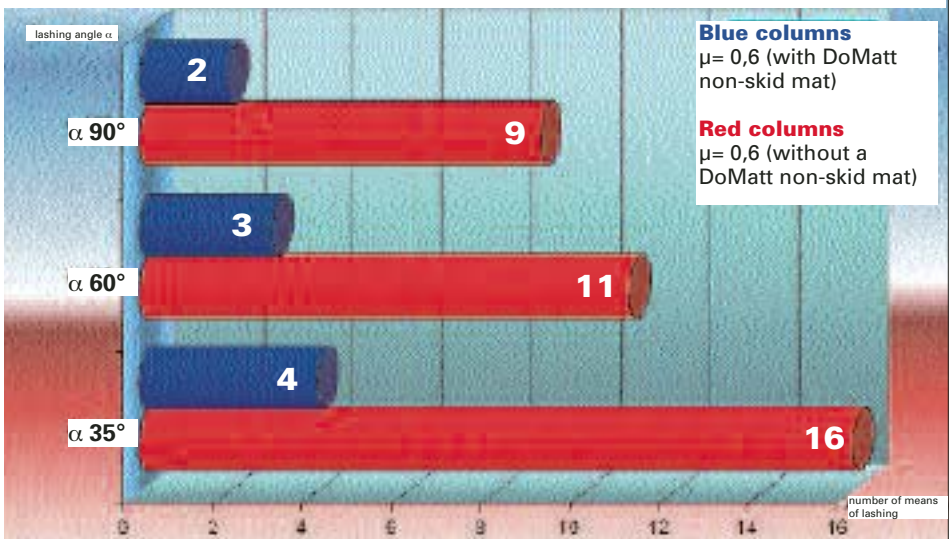
The friction factor plays an important role in the load protection. The friction forces are interacting between the load and the loading surface. They are physically expressed by the friction coefficient _. How, during the load protection, should be considered the coefficients specified in the table on page 72 for different pairs of materials?
What is the influence of friction?

What is the influence of friction?
The adjoining drawing shows clearly on the example of down lashing how big the influence of friction is on e.g. the number of necessary means of lashing.

Tip: the smaller the friction, the more lashing belts are necessary ! We recommend the use of DoMatt non-skid mats to increase the friction coefficient.

In case of **diagonal lashing** the friction influences respectively the given LC (Lashing capacity =acceptable lashing force). The principle is: the higher the friction, the lower the required LC (see also the tabel on diagonal lashing on page 75)

Influence of DoMatt on the necessary number of down lashings



Load weight G=6t, process: down lashing with DoMulti long lever ratchets.

Process of load protection
Fictional lashing according to the Simple-Method of Dolezych©

DoZurr

Example: a friction coefficient of _=0,3 means that a force of 300 kg is necessary to move on the load surface a load of 1000 kg. This means that in case of a braking lag of 1 G, still 700 kg which are not secured by friction, must be secured by lashing equipment. In case of any doubts, to assure the necessary security, the user should estimate the friction coefficient on a lower level in order to apply stronger lashing equipment.

TABLE: KINETIC FRICTION COEFFICIENTS

friction coefficient μ	dry	wet	greasy
Wood / wood	0,20-0,50	0,20-0,25	0,05-0,15
Metal / wood	0,20-0,50	0,20-0,55	0,02-0,15
Metal / metal	0,10-0,25	0,10-0,20	0,01-0,10
Concrete / wood	0,30-0,60	0,30-0,50	0,10-0,20

Important: an absolute protection by means of friction is, because of the dynamic forces acting during the transport, impossible.

3. Method of load protection

The most popular load protection methods are:

- Fictional lashing
- Diagonal lashing
- Oblique lashing
- Shape joint by means of wedges, fixing beams of wood, often connected by nails (in this connection please take into consideration the VDI 2700 instruction)
- Shape joint e.g. by applying the load to the truck's head or side walls or to its stanchions
- Fixing the load by means of wedging beams, division walls, pallets, coil troughs etc.
- A combination of different methods

3.1 The fictional lashing method according to the Dolezych Simple-Method

In the down pressing method, the down lashing, the load to be protected is lashed by the means of lashing and pressed down to the surface, thus it is protected on all sides.
Attention ! the means of lashing must be fixed to adequate catches on both sides of load surface (e.g. the lashing points acc. to DIN EN 12640). Encircling the load alone is not a sufficient load protection. There must always be created a connection between the load and the load surface.
In order to prevent gliding of load, the pressure load between the load and load surface and the resulting friction force is to be increased by means of the tension force. The tension force (STF) should also be equal at all lashings. According to VDI and DIN EN 12195-1 the means of lashing should not be tightened with a higher than 50% lashing capacity (LC). Otherwise, the dynamic forces which occur during the drive could overload the belts.
Attention! The tightening should be checked from time to time (particularly short after starting the drive), as one should count that following the load shifts, the means of lashing might get eased. The most simple method of checking the tension force is by the use of a tension force meter, e.g. the DoMess3. Then just a glance will suffice to state that your load has been lashed properly.
In order to secure during the lashing the tightening on both sides of the load, we recommend slipping edge protections, which add to the equal distribution of forces in the means of lashing and at the same time offer the protection against sharp edges. With the mobile DoMess3 you can fast fix the tightening on both sides of the lashing.

The answer to the question, how many lashing belts are necessary for securing a load by means of down lashing, is very simple. How ? With our Dolezych Einfach - Methode "
(Simple-Method), with the trucker's disc or with the calculation software,Do.L.O.R.E.S.

The calculation foundations for the correct load protection are based on a calculation formula of VDI 2702 resp. DIN EN 12195-1. The correct load protection may be calculated with a pocket calculator and the measurements made on the load, according to the following formula:

$$Z_i = \frac{G}{2 \cdot n} \cdot \frac{L_i}{L_{iV}} \cdot \left(\frac{f}{\mu} - 1\right)$$

A calculation formula according to VDI 2700, page 2. Defining the necessary down lashing tension force Zi.

$$F_T > \frac{(C_{x,y} - \mu_D \cdot c_z)\ m \cdot g}{n \cdot k \cdot \mu_D \cdot \sin \alpha}$$

A calculation formula according to DIN EN 12195-1 Defining the necessary FT down lashing tension force.

Rather complicated? But it may be even less complicated!

In co-operation with Prof. Dantzer (the University of Bremerhafen) Dolezych have developed the Einfach - Methoden " (Simple-Methods). With only a few influencing factors the correct number and dimensions of load protection equipment have been presented in lucid tables (see the table on Simple-Method down lashing on page 73 and the table on Simple-Method diagonal lashing on page 75). These tables are based on calculation foundations of DIN EN 12195-1. They have proved correct in practice and are continuously developed by our engineers to make the choice of adequate means of lashing still more simple. This is to meet the needs of the practitioners !
The table on down lashing on the next page is very easy to read. The number of

- means of lashing (yellow feids) depends on
- the coefficient of friction (green fields)
- the tension force (brown fields)
- the lashing angle (blue fields) and
- the weight of load (grey fields)

The tables base on the friction coefficient of _ = 0,1 – 0,6. In order to secure the _ value of 0,6, oil covered, greasy, ice covered or heavily dirtied surfaces must be definitely avoided (see the table on friction coefficients at gliding. The friction coefficient value of 0,6 may be achieved only with a checked DoMatt - non-skid mat. The tension force (STF) is not allowed to exceed 50% of the acceptable lashing belt lashing capacity. Therefore e.g. in case when a tension force (STF) of 1000 daN is to be applied, for direct lashing a lashing belt of the acceptable lashing capacity (LC) of minimum 2000 daN, while for load encircling – of 4000 daN should be used (e.g.DoZurr 4000).At lashing angles (see 3.1.2) between 35°, 45°, 60°, 75° and 90° always the next lower lashing angle on the table should be applied. The vertical angles _ below 35° are not economical and therefore have not been considered.

Table of the Dolezych Simple-Method fictional lashing

The number of necessary means of lashing is calculated according to DIN EN 12195-1. The tension force STF amounts to 50% on the opposite side to the means of lashing. All not whole numbers have been rounded up to whole numbers on the table. For a free standing, homogeneous load necessary are at least 2 lashings. The calculated values are referring to loads which are not exposed to overturning hazard.

Table fictional lashing acc. to the Simple-Method of Dolezych

		Payload in t					12					3				
angle° α		35	45	60	75	90	35	45	60	75	90	35	45	60	75	90
friction coeffizient μ																
S_{TF} 250 daN	0,1	33	27	22	20	19	66	53	44	39	38					
	0,2	14	12	10	9	8	28	23	19	17	16	42	34	28	25	24	56	46	37	34	32
	0,3	8	7	6	5	5	16	13	11	10	9	24	19	16	14	14	31	26	21	19	18
	0,4	5	4	4	3	3	10	8	7	6	6	14	12	10	9	8	19	16	13	12	11
	0,5	3	3	2	2	2	6	5	4	4	4	9	7	6	5	5	12	10	8	7	7
	0,6	2	2	2	2	2	4	3	3	2	2	5	4	4	3	3	7	6	5	4	4
S_{TF} 500 daN	0,1	17	14	11	10	10	33	27	22	20	19	49	40	33	29	28	66	53	44	39	38
	0,2	7	6	5	5	4	14	12	10	9	8	21	17	14	13	12	28	23	19	17	16
	0,3	4	4	3	3	3	8	7	6	5	5	12	10	8	7	7	16	13	11	10	9
	0,4	3	2	2	2	2	5	4	4	3	3	7	6	5	5	4	10	8	7	6	6
	0,5	2	2	2	2	2	3	3	2	2	2	5	4	3	3	3	6	5	4	4	4
	0,6	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	4	3	3	2	2
S_{TF} 750 daN	0,1	11	9	8	7	7	22	18	15	13	13	33	27	22	20	19	44	36	29	26	25
	0,2	5	4	4	3	3	10	8	7	6	6	14	12	10	9	8	19	16	13	12	11
	0,3	3	3	2	2	2	6	5	4	4	3	8	7	6	5	5	11	9	7	7	6
	0,4	2	2	2	2	2	4	3	3	2	2	5	4	4	3	3	7	6	5	4	4
	0,5	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2	4	4	3	3	3
	0,6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2
S_{TF} 1000 daN	0,1	9	7	6	5	5	17	14	11	10	10	25	20	17	15	14	33	27	22	20	19
	0,2	4	3	3	3	2	7	6	5	5	4	11	9	7	7	6	14	12	10	9	8
	0,3	2	2	2	2	2	4	4	3	3	3	6	5	4	4	4	8	7	6	5	5
	0,4	2	2	2	2	2	3	2	2	2	2	4	3	3	3	2	5	4	4	3	3
	0,5	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3	3	2	2	2
	0,6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Payload in t		6					8					12					16				
angle ° α		35	45	60	75	90	35	45	60	75	90	35	45	60	75	90	35	45	60	75	90
friction coeffizient μ																					
S_{TF} 250 daN	0,1																				
	0,2	84	68	56	50	48															
	0,3	47	38	31	28	27	62	51	42	37	36										
	0,4	28	23	19	17	16	38	31	25	23	22	56	46	37	34	32	75	61	50	45	43
	0,5	17	14	12	10	10	23	19	15	14	13	34	28	23	20	20	45	37	30	27	26
	0,6	10	8	7	6	6	13	11	9	8	8	19	16	13	12	11	25	21	17	15	15
S_{TF} 500 daN	0,1																				
	0,2	42	34	28	25	24	56	46	37	34	32										
	0,3	24	19	16	14	14	31	26	21	19	18	47	38	31	28	27	62	51	42	37	36
	0,4	14	12	10	9	8	19	16	13	12	11	28	23	19	17	16	38	31	25	23	22
	0,5	9	7	6	5	5	12	10	8	7	7	17	14	12	10	10	23	19	15	14	13
	0,6	5	4	4	3	3	7	6	5	4	4	10	8	7	6	6	13	11	9	8	8
S_{TF} 750 daN	0,1	66	53	44	39	38															
	0,2	28	23	19	17	16	38	31	25	23	22	56	46	37	34	32	75	61	50	45	43
	0,3	16	13	11	10	9	21	17	14	13	12	31	26	21	19	18	42	34	28	25	24
	0,4	10	8	7	6	6	13	11	9	8	8	19	16	13	12	11	25	21	17	15	15
	0,5	6	5	4	4	4	8	7	5	5	5	12	10	8	7	7	15	13	10	9	9
	0,6	4	3	3	2	2	5	4	3	3	3	7	6	5	4	4	9	7	6	5	5
S_{TF} 1000 daN	0,1	49	40	33	29	28	66	53	44	39	38										
	0,2	21	17	14	13	12	28	23	19	17	16	42	34	28	25	24	56	46	37	34	32
	0,3	12	10	8	7	7	16	13	11	10	9	24	19	16	14	14	31	26	21	19	18
	0,4	7	6	5	5	4	10	8	7	6	6	14	12	10	9	8	19	16	13	12	11
	0,5	5	4	3	3	3	6	5	4	4	4	9	7	6	5	5	12	10	8	7	7
	0,6	3	2	2	2	2	4	3	3	2	2	5	4	4	3	3	7	6	5	4	4

Load protection process

fictional and diagonal lashing according to the Simple-Method©

In case of frequent transports of loads of the same nature repeatedly controlling of the lashing angle is unnecessary.

3.1.1 Tension force S_{TF}

There are used various types of ratchets for load protection purposes. Apart from ergonomic and functional differences, the main feature is the achievable tension force. With a standard ratchet one may achieve the tension force of 250 – 350 daN. With the long lever ratchets one may achieve a tension force of 500 up to 1000 daN. The scale of the applied tension force is the most important factor deciding of the number of down lashings to be applied. Thus, using for lashing a long level ratchet will be to your advantage ,as you will need 70% less lashings. An undefeatable argument! In determining the tension force, our DoMess tension force meters will be of assistance to you.

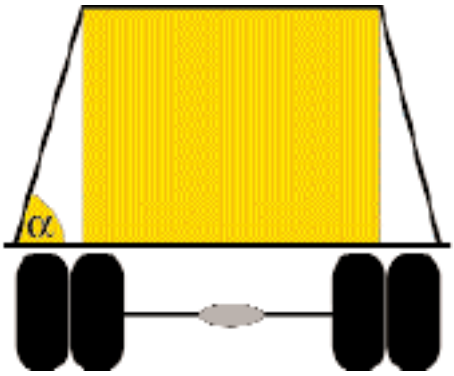
3.1.2 The lashing angle α

The lashing angle α is the one between the load surface and the means of lashing and it should be of minimum 35°. When lashing, this angle influences considerably the number of lashings to be applied. The bigger the α angle, the less lashings will be needed for your load. You will achieve the best results with the angle of α = 90°. When this angle is unknown, one should start with the worst possibility (lashing angle α = 35°). Angles below 35° are not economic at all and should be avoided. In determining the angle α, our protractor will be of assistance to you – just read and you know it !

3.1.4 The friction coefficient μ (also the gliding coefficient)

Whether a load (e.g. when braking) slips or not, depends i.a. on the nature of surfaces of contact between the load and the load surface. In load protection this is called gliding coefficient μ.

Gliding coefficients have been determined through experiments to quite a number of material pairs (pls. see the table with gliding coefficients on page 72 or DIN EN 12915-1).
By using the DoMatt anti-slip mats one may achieve the gliding coefficient μ = 0,6



3.2 The process of diagonal lashing according to the Einfach - Methode " (Simple-Method) of Dolezych

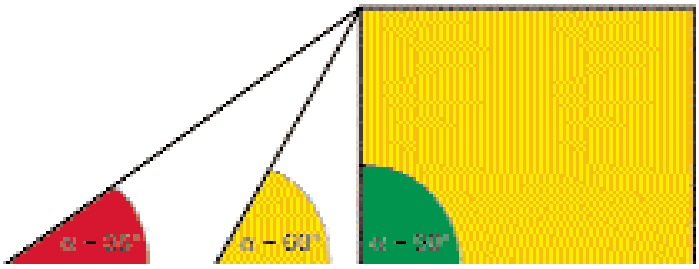
With the application of diagonal lashing - a shape joint method – even the heaviest loads may be well lashed. Depending on the nature of load, the diagonal lashing may be carried out in different ways. The necessary securing forces arise during the drive through load displacement. Because forces which arise during the truck's motion (acceleration force, retardation and centrifugal force) are directly taken over by the means of lashing, in this case the calculation is based on the acceptable tension force LC (tension force).
In the case of diagonal lashing, the means of lashing are fixed between the lashing catches of the truck and the sling catches of the load. Because the acceptable tension force (LC) should not be decreased already by the high tension forces, in case of diagonal lashing - contrary to down lashing – the belts are tightened by hand only (with max.10% of LC).

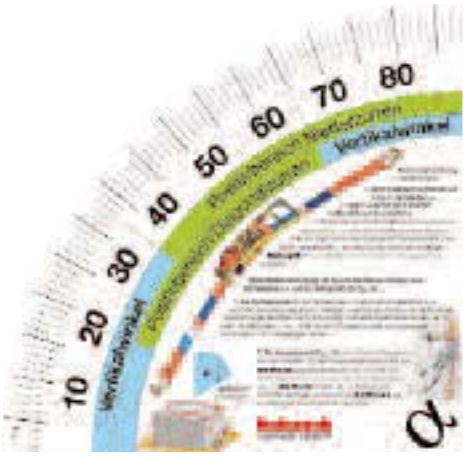
3.2.1 Lashing angles α and μ

In case of diagonal lashing the required acceptable tension force of the means of lashing depends on the lashing angles α **and** μ. The lashing angle α is the vertical angle (see variants 1 – 3 on page 75) between the loading surface and the means of lashing and it should be in the range of 20° to 65°. The horizontal angle μ is the angle between the truck's lengthwise direction and the means of lashing and it should be in the range of 6° to 55°. In the table of the Einfach - Methode " (Simple-Method) - diagonal lashing on page 75 these angle ranges have already been considered.

Simply read the acceptable lashing capacities of the means of lashing required for the weight of your load.

Quite often one may calculate more favourable figures of securing forces when both angles α and μ will be measured with the Dolezych protractor. The result: either a smaller dimensioned means of lashing or with equal means of lashing – securing higher weights of loads.

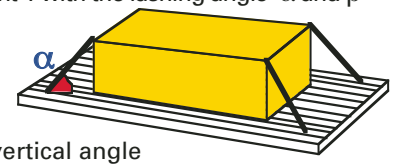




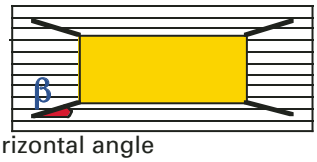
Load protection process diagonal lashing according to the Einfach - Methode " (Simple-Method) of Dolezych©

Table of the Einfach - Methode "(Simple-Method)
of Dolezych – diagonal lashing has been made up for the following angle ranges: α= 20° to 65° and μ = 6° to 55°. For cases of most unfavourable angle pairs the necessary tension force has been calculated. Please take care that also sling catches on the load and the lashing catches of the loading surface have the respective strength. The LC values in the table have been made round in such a way, that they meet the respective LCs of the available means of lashing.
So e.g. a 10 mm lashing chain has the LC of 6300 daN.
The LC of the means of lashing is as much smaller, as higher the friction coefficient _ is. A more advantageous LC value may also be calculated after determining the lashing angle.

Variant 1 with the lashing angle α and β

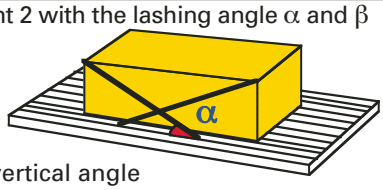


α: vertical angle

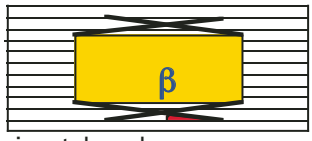


β: horizontal angle

Variant 2 with the lashing angle α and β

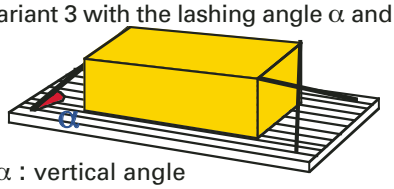


α: vertical angle

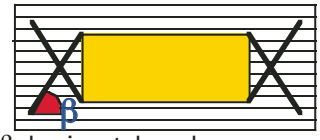


β: horizontal angle

Variant 3 with the lashing angle α and β



α : vertical angle



β: horizontal angle

Additional measures, like shape joint, wedging, nailing or fixing the load add considerably to the protection of load. Unfavourable ranges of angles and dimensions of load may be equalized with by means of cross lashing (see the "variant 2" and "variant 3").

3.2.2 The friction coefficient μ (also the gliding coefficient)

Under diagonal lashing friction influences the respective LCs. The principle is: the higher the friction, the lower the required LC.

Einfach - Methode "(Simple-Method) of Dolezych© Diagonal lashing

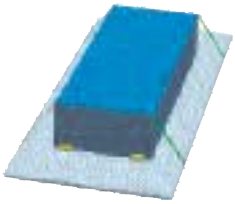
In order to safeguard a load by means of 4 means of lashing with an acceptable tension force in a direct belt, each of (daN):

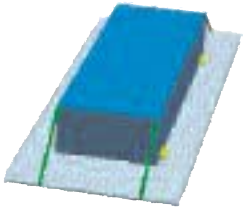
load weight in kg	Friction coefficient μ					
	μ=0,1	μ=0,2	μ=0,3	μ=0,4	μ=0,5	μ=0,6
50000	-------	-------	-------	20000	16000	10000
48000	-------	-------	-------	16000	16000	10000
46000	-------	-------	-------	16000	10000	6300
44000	-------	-------	-------	16000	10000	6300
42000	-------	-------	-------	16000	10000	6300
40000	-------	-------	20000	16000	10000	6300
35000	-------	-------	20000	16000	10000	6300
30000	-------	-------	16000	10000	10000	4000
28000	-------	-------	16000	10000	6300	4000
26000	-------	-------	16000	10000	6300	4000
24000	-------	-------	16000	10000	6300	4000
22000	-------	20000	16000	10000	6300	4000
20000	-------	20000	10000	10000	6300	4000
18000	-------	20000	10000	6300	4000	2500
16000	-------	16000	10000	6300	4000	2500
14000	-------	16000	10000	6300	4000	2000
12000	20000	16000	6300	4000	4000	2000
10000	16000	10000	6300	4000	2500	1500
9000	16000	10000	6300	4000	2000	1500
8000	16000	10000	4000	4000	2000	1500
7000	16000	6300	4000	2500	1500	1000
6000	10000	6300	4000	2000	1500	1000
5000	10000	6300	2500	2000	1500	750
4000	6300	4000	2000	1500	1000	750
3000	6300	4000	1500	1000	750	500
2500	4000	2500	1500	1000	750	500
2000	4000	2000	1000	750	500	500
1500	2500	1500	750	500	500	250
1000	1500	1000	500	500	250	250
500	750	500	250	250	250	250
250	500	250	250	250	250	250

The vertical angle α between 20° and 65°, the horizontal angle β between 6° and 55°.
All the figures in the table have been made round to meet the LC(tension force) values of the Dolezych means of lashing.

3.3 Oblique lashing

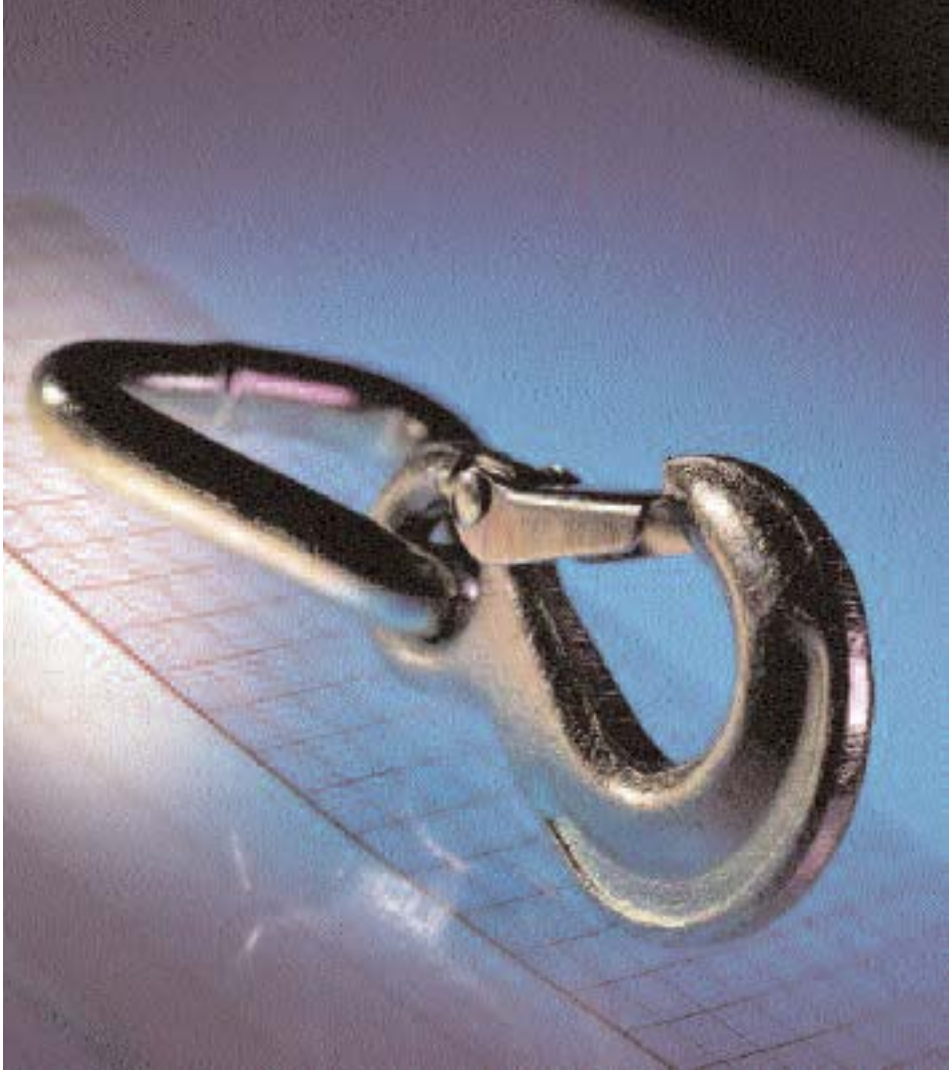
Oblique lashing is a direct safeguarding shape joint through means of lashing resp.only in the longitudinal or cross direction. When a truck is furnished with side stanchions, the load protection may be arranged by oblique lashing length-wise against the direction of load displacement when braking resp. when the truck starts driving.





Truck-related lashing system according to the Einfach - Methode" (Simple-Method)© of Dolezych

DoZurr



4. Truck-related lashing system for diagonal or down lashing – lashing without measuring the angle and without calculations. How is this possible?

The truck will be furnished with means of lashing corresponding with its maximum pay-load.

The means of lashing will be dimensioned in such a way that they will achieve the necessary securing forces also under unfavourable circumstances. This way can be correctly and reliably lashed any homogeneous and stable load which does not exceed the upper pay load of the truck; either by means of **diagonal or by down lashing.**

Example of diagonal lashing:

The figure corresponding with your truck can be found in the table on diagonal lashing (see page 75) in the _ column, when you will consider the acceptable pay-load of your truck as the weight of load.
Reliable lashing of load without measuring the angle or any further calculations is always possible up to the limit of the acceptable pay-load.

Example: the pay-load of the truck is 5000 kg.

At best, with μ = 0,6 by applying a non-skid mat, necessary are 4 means of lashing of a tension force of 750 daN each.

When the friction will be only μ =0,1 then the means of lashing must represent 10000 daN each.

Example of fictional lashing:

Select on the table down lashing on page 73 the vertical angle of α=35° which represents the most unfavourable angle of fictional lashing . Now go over to the column with the pay load (of your truck) and determine the lashing capacities which must be achieved with your means of lashing. E.g. in case of DoZurr 4000 with a 50 mm pressure ratchet the achievable tension force is 250 daN or in case of DoZurr 5000 with a 50 mm DoMulti ratchet and a DoMess lashing meter it is 750 daN.

Now you can read in the column with the gliding coefficient of μ =0,3 the number of means of lashing you need for the truck related system.

Example: the pay-load of your truck is 2000 kg.

At a friction coefficient μ = 0,3 and a lashing angle of α=35° there are necessary 6 lashing belts with a DoMulti long-lever pulling ratchet of a tension force S_{TF} of 750 daN.

Under the mentioned suppositions, the load, without measuring the angle or making calculations, may be reliably lashed up to the acceptable pay-load. Even when it will happen that you will not transport the entire pay-load, but lower weights, you always should use the same means of lashing, also when this way the load protection will be over-dimensioned.

This is the truck related system according to the **Einfach - Methode"© (Simple-Method) of Dolezych**

Tension force meters

Tension force

An important factor of fictional lashing is the tension force. The higher the tension force is in a lashing belt the more load weight may be secured, resp. the less means of lashing will be applied to secure the same load.
Thanks to the application of tension force meters, like DoMess 1, DoMess 2 and DoMess 3 (see page 100) it becomes possible to demonstrate,with the DoMess 3 even "mobile",the tension force put into the means of lashing by the tightening ratchet.

DoMess 1 is a tension force meter which is firmly connected with the ratchet.

DoMess 2 may be at choice be firmly connected with the ratchet or may be pulled independently onto the lashing belt. DoMes 1 and DoMess 2 are every time an element of the lashing belt.
DoMess 3 on the other hand is a tension force meter device which may be put on any tightened 50 mm lashing belt to measure the tension force, also on the opposite side of lashing.

Why is it important?

Without the tension force meters on lashing belt the user is not able to determine the level of tension force which has been applied to the lashing belts.
According to DIN EN 12195-2 every lashing belt applied for fictional lashing must have on the label with the hand operated SHF the information regarding the achievable tension force S_{TF}.

Then, it is permitted to use for load protection calculation purposes only the minimum value of tension force stated on the label.

The systems of 50 mm lashing belts of Dolezych with standard pressure ratchets and the DoMulti and Do2Step pulling ratchets have the acceptance of GS according to DIN EN 12195-2. The lashing values which have been certified by the GS control will, according to the standard, have on the labels respective figures marked as S_{TF} and S_{HF}.
These minimum values are in principle on the level of 10% of the acceptable "LC" (Lashing Capacity) and are marked with the symbol S_{TF} (standard tension force. For a lashing belt of LC 2000 daN in direct lashing (5000 daN / 5 t when encircling), the minimum tension force is S_{TF} 250 daN, for a lashing belt of LC 2500 daN in direct lashing (4000 daN / 4 t when encircling), the minimum tension force is also S_{TF} 250 daN.

The Dolezych long-lever pulling ratchets are in principle marked with a higher S_{TF} (S_{TF} 500 daN instead of S_{TF} 250 daN).

For calculation of the necessary safeguarding forces for load protection purposes one should apply only the "regular tension force" S_{TF} mentioned on the label.

The really achieved, even if higher, tension force may be used for calculation purposes only then, when it will be proved by a tension force meter.

One may take advantage of the maximum capacity of a ratchet, in particular a Do-Multi pulling ratchet, Do2Step or DoVario ratchets, only by the application of tension force meters (max. LC ca.1000 daN). In other words: the really applied maximum tension force can be read off without any doubts and then it may be used for the calculation of lashing belt numbers.
Our example of a calculation on the next page will show, how many lashing belts may be saved by you in the every-day practice.

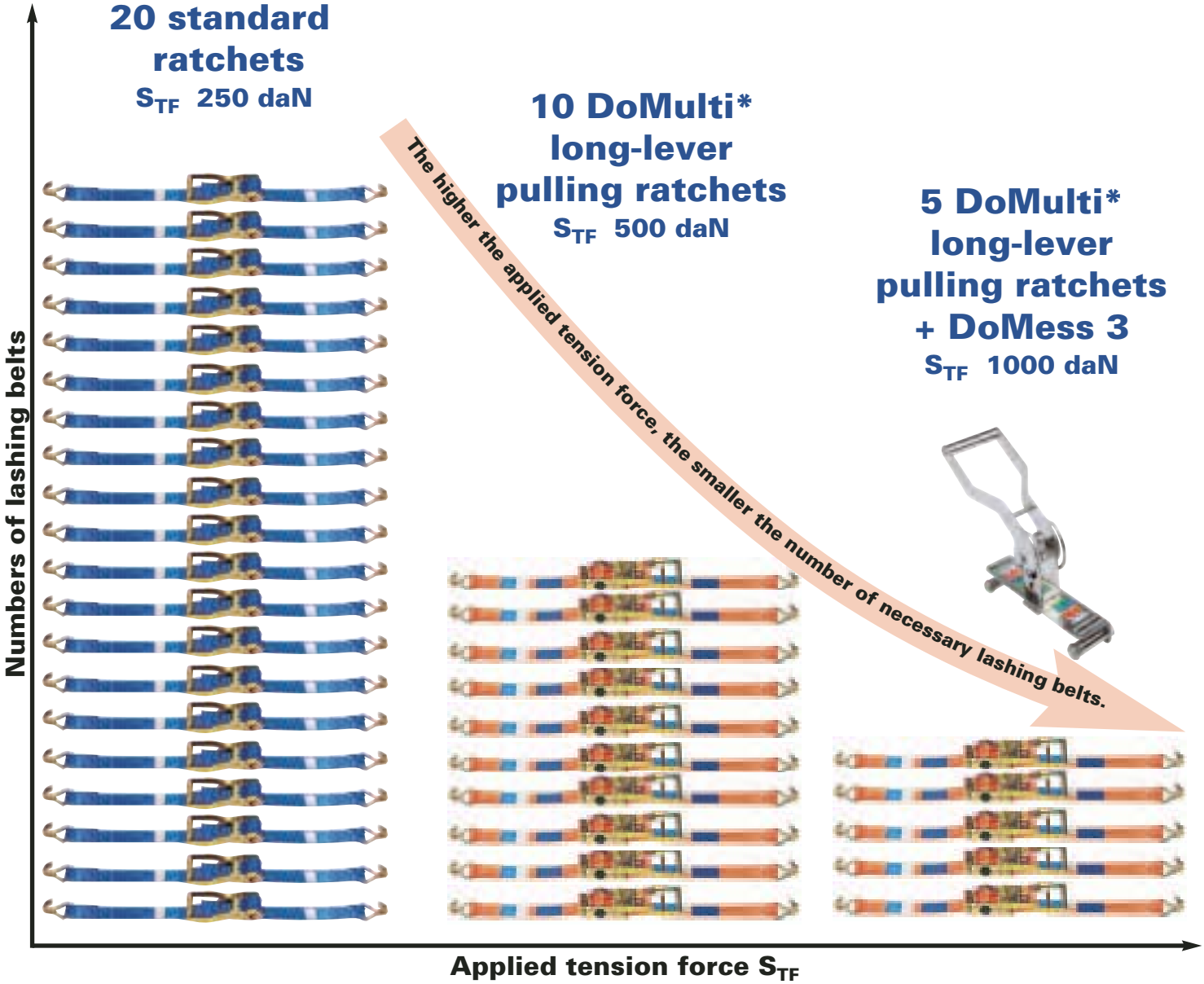
Example of a calculation load protection with/ without DoMulti

Example for comparison of standard ratchet against the DoMulti ratchet, * without or with the application of tension force meters.

In order to secure by means of fictional lashing a load weight of 6 t

you need at a friction coefficient of μ = 0,3 and the lashing angle α = 90°, by application of a standard ratchet **20 lashing belts**. Thanks to the use of tension meters DoMess 1, 2 or 3 and of the DoMulti pulling ratchets, you need only **5 lashing belts** and your load is still correctly protected.

* refers also to DoVario 1, DoVario 2 and Do2Step.


20 standard ratchets
S_{TF} 250 daN
10 DoMulti* long-lever pulling ratchets
S_{TF} 500 daN
5 DoMulti* long-lever pulling ratchets + DoMess 3
S_{TF} 1000 daN
The higher the applied tension force, the smaller the number of necessary lashing belts.
Numbers of lashing belts
Applied tension force S_{TF}

Review of ratchets for webbings of 50 mm width

DoZurr

Which types of ratchets are available?

The following data are of special importance for distinguishing the different types of ratchets:

S_{TF}: Standard Tension Force

S_{HF}: Standard Hand Force

LC: Lashing Capacity – acceptable lashing capacity of the means of lashing

Dolezyl offers within the scope of 50mm a choice of very different ratchets:

1. Ratchet type DoZurr 4000 and 5000: ratchet

S_{TF}: 250 daN, S_{HF}: 50 daN,
LC: 2000 daN resp. 2500 daN

Our best selling ratchet for almost all applications. This one will definitely suite you! Checked according to DIN EN 12195-2.

2. Ratchet type DoMulti 4000 and 5000:
a long-lever pulling ratchet

S_{TF}: 500 daN, S_{HF}: 50 daN,
LC: 2000 daN resp. 2500 daN

The DoMulti long-lever pulling ratchets have an extremely stable grip and are of low structure. When compared with pressure ratchets, one achieves with the pulling ratchets, by using the same force of pulling by hand, more than the double tension force value (up to 1000 daN). This is achieved thanks to the longer ratchet lever, to the principle "pull instead of pressing" and to the high transmission ratio (20 instead of 11 teeth of the ratchet).

Result: the same load may be handled with less lashing strips !

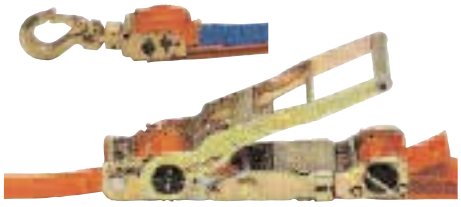
3. Ratchet type Do2Step 4000 and 5000: a long-lever pulling ratchet with built-in two-stage expansion automatics.

S_{TF}: 500 daN, S_{HF}: 50 daN,
LC: 2000 daN resp. 2500 daN

The Do2Step ratchets achieve, similarly as the DoMulti ratchets, the tension force of up to 1000 daN. In addition, the mechanism of Do2Step cares for the highest safety during unloa-ding, because its first step is the automatic preliminary expansion of the strip tape via a safety slide, without loosening the lashing. This takes place first in the second stage. The result: no whip-effect when opening the ratchet and no risk that the load might get overturn. At the same time the gears get spared and thus the life of ratchet system gets extended.

4. Modular system ratchet type DoVario 1+2:
a long-lever pulling ratchet

S_{TF}: 500 daN, S_{HF}: 50 daN,



LC: 2000 daN resp. 2500 daN

With the integrated lashing measuring device and a coiling housing (of not sewn elements), available at choice as Do2Step version (DoVario2).

Highest flexibility and controlled expenses thanks to the easy to replace belt strip. You decide yourself how long the lashing belt should be used: the lashing hook with coiling housing and the ratchet body with a swivel offer a variety of belt strip fastening possibilities without sewing up. Add the highest technique of pulling ratchets: long-lever pulling ratchet for the highest tension force, at the same time an excellent control of tension force by means of the integrated tension force measuring device and as option - maximum safety thanks to the expansion automatics Do2Step (DoVario2).

5. DoPremium with
1. ratchet

S_{TF}: 250 daN, S_{HF}: 50 daN,
LC: 2500 daN

2. long lever pulling ratchet
S_{TF}: 500 daN, S_{HF}: 50 daN,

LC: 2500 daN

Highest quality standard both as pressure ratchet as well as in the long lever pulling ratchet version.

This additionally powder coated ratchet is particularly solid and distinguishing itself by best ergonomics. The special belt strip with its dirt resisting lotus-effect, its specially flat web structure, which enables achieving high tension forces and a special web-edge which protects against damages, make these premium products complete. As a standard, the DoPremium lashing belts are delivered with our patented DoConnect-hook.

Service manual for lashing belts of Dolezych

Lashing belts of Dolezych are meeting all the requirements of DIN EN 12195-2, 3 and 4.

This Service Manual should be read carefully prior to the first use of Dolezych equipment and observed during their use.

It refers to the following Dolezych products:

- the DoZurr lashing belts with ratchets
- PowerLash heavy duty lashing belts
- DoZurr lashing belts with belt clamps
- Dolezych lashing chains and lashing steel ropes (please inquire)

The Dolezych lashing belts may be applied only for lashing of loads, never for lifting loads!

We wish to draw your attention particularly to the following regulations and technical principles which are valid along with this service manual:

BGR 500, (former VGB 9a 'loading equipment in a hoisting gear production plant'
VDI 2700 page 1-9 and further pages 'Load protection on means of road transport – safety'

Part 1 – calculation of lashing forces
Part 2 – lashing belts of chemical webs
Part 3 – lashing chains
Part 4 – lashing steel ropes

When applicable,one should also observe specialized regulations, e.g with respect to hazardous loads, transports by train, ship or air.

When applying lashing ropes and lashing chains, pleas also consider our service manuals on the pages 146-149 and 230-233. Ask for detailed information or address www.dolezych.de

Selecting the Dolezych lashing belts:

When selecting the adequate Dolezych lashing belts, take into consideration i.a. the following important aspects:

- The weight and nature of load
- The friction μ between the load and the loading surface (consider selecting pairs of materials !)
- The lashing process (e.g. down lashing, oblique lashing, diagonal lashing or their combinations)
- The requirements with respect to the truck (e.g.lashing catches, acceptable additional loads, load arrangement)
- Load surface (e.g. sharp edges, rough surfaces which make additional protection measures necessary, like e.g. edge protections or protection tubes).

A wrong selection may result in a failure of the means of lashing!

- The Dolezych lashing belts are not suitable for sharp edged loads (only with additional edge protections or with adequate coating) or for loads of temperatures below - 40° C or above + 100° C (polyester and polyamide) resp. - 40° C and + 80° C (polypropylene).

The loads on Dolezych lashing belts should never exceed the acceptable lashing capacity (LC)!

The application of the Dolezych means of lashing:

Prior to using the first time a selected means of lashing, one should check whether its identification and dimensions are correct and whether it is adequate for its planned application.

Never use a means of lashing which is damaged or its identification is missing!

Identification of Dolezych lashing belts:
All Dolezych lashing belts are according to DIN EN 12195-2 furnished with sewed on labels.
Data on the label are:

- The acceptable lashing capacity (LC) in daN (1 daN = 10 N = 1 kp)
- Normal hand force S_{HF} in daN = 50 daN

- Tension force S_{TF} in daN which can be reached with the normal hand force of 50 daN
- Standard according to which the lashing belt has been manufactured
- Material of the belt strip:
  PES (=polyester); a blue label
  PA (=polyamide); a green label
  PP (=polypropylene); a brown label
- Usable length L1 in meters
- Year of production
- Manufacturer Dolezych Dortmund
- Code of reference
- Symbol of GS and inspection station
- Acceptable lashing capacity with symbols depicting single segment or double lashing belts (direct and encircled)
- Remark: "Do not lift, for lashing only!"

Transport of loads:

1. Truck loading: when loading a truck observed should be i.a. the provisions of UVV "Fahrzeuge" (trucks) (VGB 12).

A few excerpts:

- "Trucks should be loaded to such an extend only, that the acceptable values of
  1.the total weight

Service manual for lashing belts of Dolezych

2.the axial loads
3.the static supporting load
4.the saddle load will not be exceeded.
The load distribution should be arranged so that the manner of driving will not be influenced in a way exceeding the acceptable measure"

Consideration should be given to the truck manufacturer's load distribution plan!

- Loading and unloading of trucks should be made in such a way, that people will not be endangered by falling down, overturning or shifting objects resp. by flowing or pouring out materials."
- "The load is to be arranged and when necessary secured in such a way, that under regular road traffic conditions any endangering of persons will be excluded."
  Load protection is in the first instance the protection of persons!

2. Checking whether the load is well standing and of stable nature!
   Unstable (with a tendency for overturning) load must be at once protected by adequate means of lashing or by means of shape joint (criteria of load stability - see VDI 2700 page 2). Securing forces which will become necessary are to be applied by means of lashing. A load unstable of its nature is to be arranged in a respective way to make stable units (containers, bundles etc.).A load in form of rolls is to be made stable be means of applying adequate cover elements (stanchions, wedges).

3. Selection of the adequate load protection method:

- Down lashing: at down lashing the necessary force of securing is achieved just by "pressing down" the load to the loading surface. For this purpose the load will be lashed with means of lashing. The tension of the means of lashing is of vital importance. The lashing angle α (the angle between the perpendicular and the means of lashing) should be as big as possible (vertical lashing belt, $\alpha = 90°$). Down lashing is a common method for small and medium heavy loads.

Attention: tension force should not exceed 50% of the acceptable lashing capacity (LC) of the lashing belt! For a free standing load there are prescribed at least two lashing belts!

- Diagonal lashing: at diagonal lashing (direct lashing) the means of lashing are applied directly between the lashing catches of the load and those of the loading surface. The load is secured directly by the means of lashing. The lashing belts are tensed to the maximum of 10% of lashing capacity. The acceptable tension force of the lashing belts is of decisive importance. The lashing angles should be between 20° and 65° for the vertical angle α and 6° and 55° for the horizontal angle β (the angle between the truck's longitudinal axis and the means of lashing). The diagonal lashing is suitable for heavy loads and it should have precedence to the down lashing whenever possible. For a free standing load there are necessary at least four means of lashing!
- Combinations: it may be of advantage the combine with each other the a.m. load protection methods, or to complete them with additional measures (e.g. by means of seating down the load). Please ask us!

4. Determining the necessary means of lashing:

- For determining the necessary means of lashing is the Dolezych-Einfach-Methode (simple method) (see pages 72-76) or the D.o.L.O.R.E.S. calculation soft ware best suitable. The condition is that the load is of a stable and overturning resistant nature (see VDI 2700, page 2) and the lashing angles α and β, as well as the friction coefficient μ and the weight of the load are known.

The friction coefficient μ (also called gliding coefficient) may be considerably increased by application of a DoMatt non-skid mat.

TABLE: KINETIC FRICTION COEFFICIENTS

friction coefficient μ	dry	wet	greasy
Wood / wood	0,20-0,50	0,20-0,25	0,05-0,15
Metal / wood	0,20-0,50	0,20-0,55	0,02-0,15
Metal / metal	0,10-0,25	0,10-0,20	0,01-0,10
Concrete / wood	0,30-0,60	0,30-0,50	0,10-0,20

Because of grease, the friction coefficient may be drastically reduced (up to 0,01)! A friction coefficient _ of 0,3 means that a force of 300 daN is necessary to shift a load of 1 t. So still 700 kg of load weight must be secured (e.g. with three lashing belts DoZurr 5000 (LC=2500 daN), lashing method is down lashing, tension force is 250 daN each, lashing angle $\alpha = 90°$)!

5. The load is to be lashed carefully. Unnecessary belts are to be winded up, bound and stored dry.
6. At regular drive sections the lashing belts are to be tightened (particularly soon after starting driving)!

Attention: every lashing belt gets extended when tightened!

The Dolezych lashing belts are characterized by a very small extension capability (max.5%).And still regular tightening is necessary!
This refers also to tightened belts which have not been moved but e.g. are lashing the load on a pallet.

7. Prior to opening the lashing belts one should check whether the load stands stable on the load surface without any lashing. If this is not the case or doubts arise, so the load should be protected by means of lashing already prior to opening the lashing belts. The lashing belts may be removed only, when it will be found that there is no risk by doing so!

Service manual for lashing belts of Dolezych

The long-lever pulling ratchet Do2Step offers an additional security, because the opening takes place in two steps.

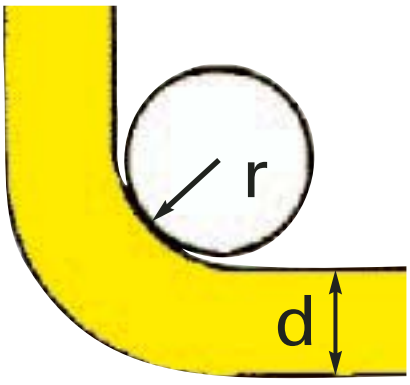
Important remarks on application and warnings:

- The lashing belts may be loaded only up to the level of the acceptable lashing capacity mentioned on the label.
- The lashing belts are not allowed to be used for slinging purposes.
- The lashing hooks are not allowed to be loaded on their tips.
- Neither tightening nor connecting elements are allowed to be charged to cause bending.
- In case of loads with sharp edges or rough surfaces, lashing belts may be applied only, when the endangered places of lashing belt will be protected. As a sharp edge is considered the edge with its radius r being smaller than the belt's thickness d.

  The Dolex protective tube protects the belt strip against sharp edges.

  Warning: the gliding of a lashing belt on a sharp edge may even wear out the DoLex protective tubes!

  The PVC and PU protective tubes serve as abrasion protection against rough surfaces only. The Dolezych edge protections are particularly useful for the protection of right angle load edges.
- In case of a tightened ratchet, the belt strip must be coiled at least 2 1/4 times on the ratchet's half-shaft.
- The lashing belts are not allowed to be knotted.
- For protection purposes of a load may be used only lashing belts of same type (e.g. of same material, same acceptable lashing capacity etc.). (Exceptions are possible, e.g. in case of the combination of different lashing methods).
- Under cutting, grinding or welding works, the lashing belts are to be protected against sparking.
- Lashing belts are not allowed to be overcharged. No aids (e.g. pipes or rods) are allowed to be used for tightening purposes.
- Lashing belts, after the break or deformation of a tightening or connecting element, are not allowed to be used any more.
- No loads which could damage the belt strip are allowed to be hung on it.
- The tightening element (the ratchet) should be closed after the process of tightening.
- The tightening element (the ratchet) should be regularly inspected (moving parts should be oiled or greased).



Cleaning the Dolezych lashing belts:

The Dolezych lashing belts should be cleaned with clean water with no chemical additives. Lashing belts which got wet due to their use or cleaning, should be dried on fresh air. Under no circumstances are the lashing belts allowed to be warmed up or to dry them forcibly in any other way.

Storing the Dolezych lashing belts:

Prior to storing the lashing belts, examine them for damages which might result of their use. Do not store damaged lashing belts. Lashing belts,when not used, should be stored in a clean , dry and well ventilated environment. They should be kept away from heat sources, from chemicals, exhaust gases, surfaces under corrosion, direct sun shine and from other sources of ultraviolet radiation.

After a longer storage the lashing belts (particularly the moving parts of their tightening elements) are to be examined for functioning!

Application of Dolezych lashing belts in contact with chemicals:

Materials of which the Dolezych lashing belts have been manufactured (PES,PA,PP) are different from the physical point of view (e.g. the grip, stability, abrasion resistance) as well as because of their different resistance against chemical exposure.

Warning! All the materials of lashing belts, when exposed to chemicals, depending on their concentration, temperature and time of exposure, may be destroyed resp. their lashing capacity may be drastically reduced!

In case that your lashing belts will be exposed to chemicals, do not hesitate to ask us for advice. When the lashing belts will get in contact with chemicals, undertake immediately their cleaning with clean water or with an other adequate means. When doing this, please observe the work safety regulations.

Even harmless acid or lye solutions may get through evaporation so much concentrated in a lashing belt, that they may cause damages!

The use of Dolezych lashing belts under different temperature ranges:

The Dolezych lashing belts are suitable for application under the following temperature ranges:

Material of lashing belt strip	Temperature ranges:
Polyester, polyamide:	- 40° C up to + 100° C
Polypropylene:	- 40° C up to + 80° C

These temperature ranges may change depending on the chemical environment, therefore please as for our information.

Regular inspections:

The lashing belts should be inspected

Service manual for lashing belts of Dolezych

by an expert once a year the latest. Depending on the conditions of application even more frequent than once a year inspections may be necessary. This particularly refers to the frequent applications, to increased wear, under corrosion and heat exposure or, when according to the company's experience, one should count with an increased threat of damage. During the whole period of use, the user should regularly undertake visual controls aimed at detecting damages which might influence a lasting and safe use of a lashing belt. These controls should also refer to connecting elements and to the markings. In case of any doubt about the suitability for use or when the marking (the label) will get lost, as well as after damages resp. some special occurrences, which might influence the lashing belt, such a lashing belt is to be excluded from further use for the examination by an expert.
Examples of defects and damages which affect durably the safe use of lashing belts are: surface abrasions, longitudinal resp. cross cuts, cuts or abrasion on belt strip edges, on the fibre or slings, chemical influence, damaged or deformed tightening or connecting elements.

The inspection service of Dolezych

Take advantage of the mobile inspection service of Dolezych ! We will control your lashing belts either at the Dolezych Control-Center, at your facilities or directly at the site of application.

The Dolezych repair service

When your lashing belts are faulty, they may be repaired by a specialist of Dolezych. This will help you to save expenses.
Never try to repair your lashing belts yourself !
When Dolezych lashing belts should be disposed of:
The Dolezych lashing belts are not allowed to be used (they are suitable for disposal) in case of:

- Breaks and cuts of fibre on more than 10% of its diameter
- Damages to the carrying seams
- Deformation because of exposure to heat (abrasion, radiation)
- Damages incurred by influence of aggressive materials
- Deformations, scratches, breaks or other damages incurred to tightening or connecting elements (e.g. in case of 5% widening of hook in hook throat)
- Missing or illegible marking

General remarks regarding hazards:

When applying belt strips or tightening elements, the following hazards have to be taken into consideration by the user:

- hazards in connection with applying force, that the load may hit you, that you may loose balance or fall down,
- Press or cut injuries, like hand or arm injuries incurred during ratchet tightening
- Hazards to the unloading personnel on the side of load, which due to inadequate load protection got shifted during transport and which, particularly at the moment of opening the truck's side boards, might fall down on the unloading personnel.
- Hazards in connection with the application of inadequate lashing belt combinations (e.g. lashing belts with different acceptable lashing capacities (LC)
- Please take into consideration the instructions in the appendix to DIN EN 12195-2, 3 and 4.

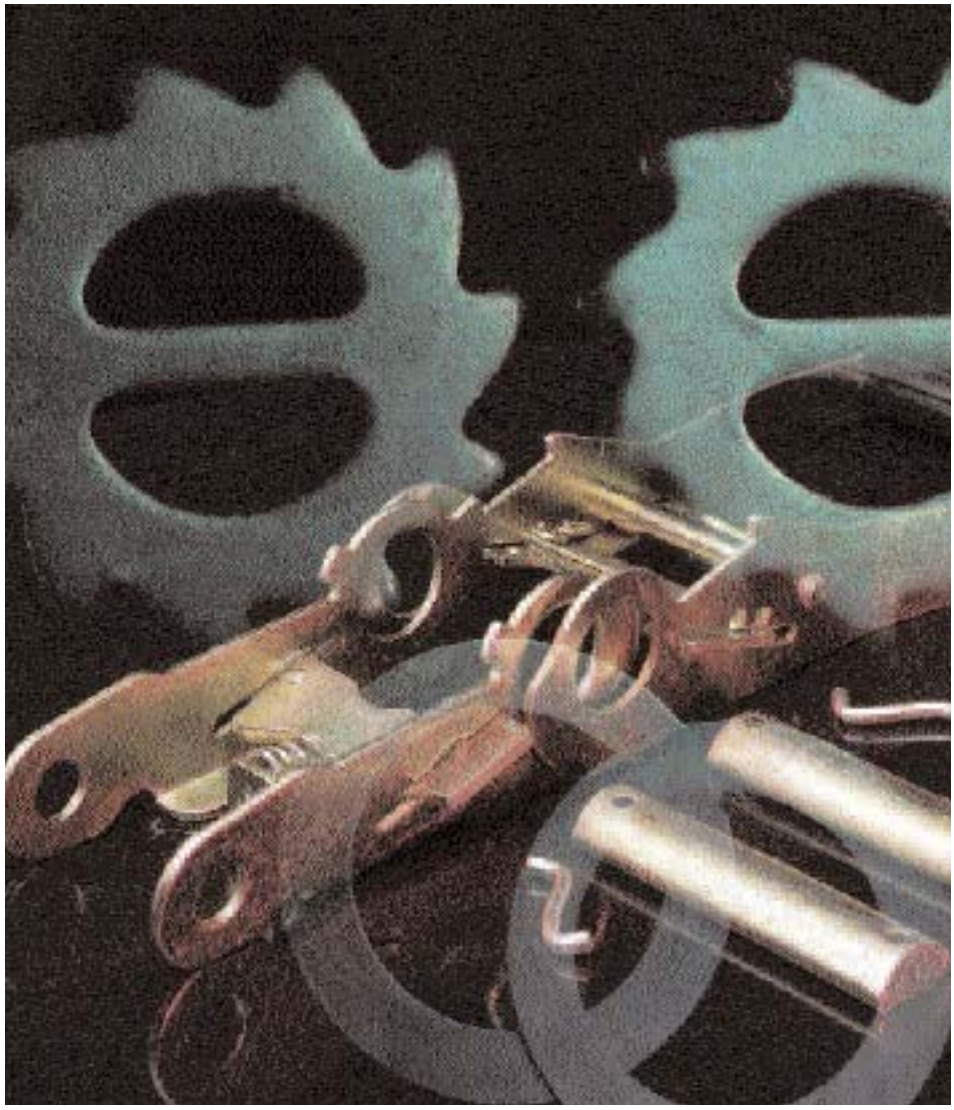
As user, pay attention to good education of your loading and driving personnel through respective training measures.

Several times a year Dolezych organize for everybody who is responsible for load protection the well know "Seminars in Dortmund". Dolezych also organize seminars at your facilities. Please address us!

BQH seminars on load protection
Ph.:02 31/82 75 98

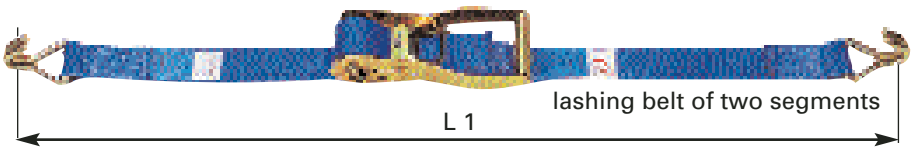
Ratchet lashing belts with pressure ratchet 50 mm

DoZurr 4000



DoZurr 4000		
LC under direct pulling	LC when encircling	STF
of 2 segments	of 1 segment	
2000 daN	4000 daN	250 daN

Available hookes for this belt can be found on the next page.

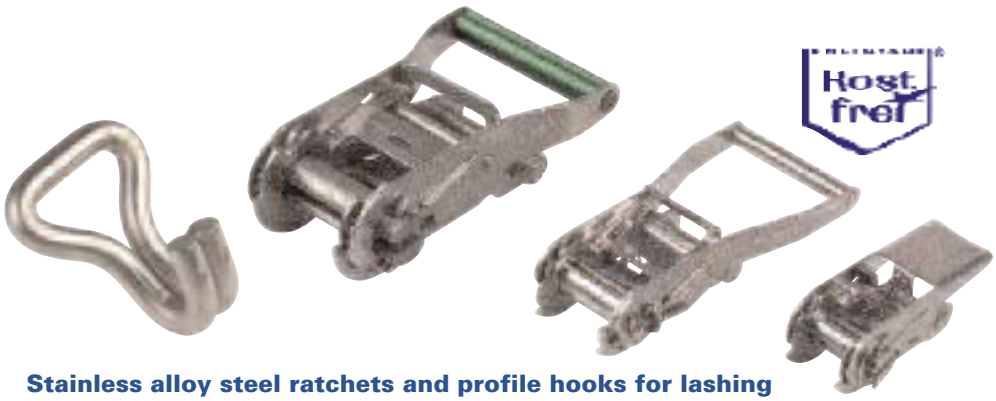


DoConnect – the patented lashing belt hook of Dolezych. By means of hook elements which canbe shifted, may be applied as U-profiled hook or encircling belt.

DoZurr 4000, fixed end 0,3 m long, loose end 7,7 m long

Galvanized pressure ratchet with han lever protection, two toothed wheels high expanded polyester fibre, 50 mm of width, of small extension, scrub and abrasion resistant, galvanized hook

Type of hook/ type of end tip mount Lashing belt with 2 x	price per 8 m complete **EUR**	per any add. meter **EUR**	article No.
Profile hook	20,50	1,20	2650 4034
U-profile hook	20,35	1,20	2650 4078
DoConnect hook	32,90	1,20	2650 4097
Clip hook	24,95	1,20	2650 4012
DoMagnet hook	25,55	1,20	2650 4178
Triangle clip hook	28,95	1,20	2650 4112
Heavy profile hook	25,10	1,20	2650 4134
Finger profile hook	25,20	1,20	2650 4234
Profile hook with protection	24,80	1,20	2650 4334
Delta-bow	27,60	1,20	2650 4056
Lashing belt, of 1 segment (without hook)	16,45	1,20	1650 4000



Stainless alloy steel ratchets and profile hooks for lashing belts of 25, 35 and 50 mm strip width – on inquiry

Ratchet lashing belts with pressure ratchet 50 mm

DoZurr 5000

Profile hook

U-profile hook

DoConnect hook

Clip hook

DoMagnet hook

Triangle-clip hook

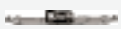
Heavy profile hook

Finger profile hook

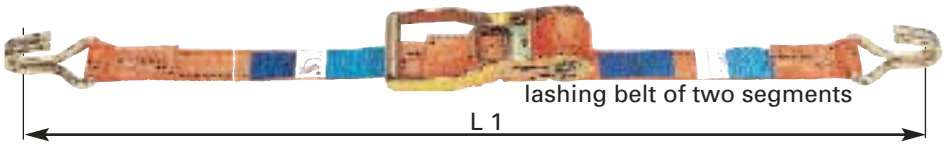
Profile hook with protection

Delta bow

DoZurr 5000

LC iunder direct pulling	LC when encircling	STF
 of 2 segments	of 1 segment	
2500 daN	5000 daN	250 daN

One segment lashing belt



lashing belt of two segments

L 1

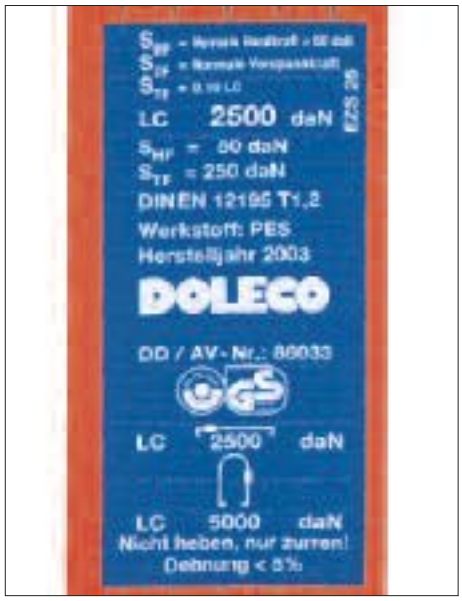
DoZurr 5000, fixed end 0,3 m long, loose end 7,7 m long

Galvanized pressure ratchet with hand lever protection, two toothed wheels, highly expanded polyester fibre, 50 mm of width of small extension, furnished with scrub and abrasion resistance, galvanized hook

Type of hook/typeof end tip mount lashing belt with 2 x	price per 8 m complete EUR	per any add. meter EUR	article No.
Profile hook	24,00	1,60	2650 5034
U-profile hook	23,85	1,60	2650 5078
DoConnect hook	36,40	1,60	2650 5097
Clip hook	28,45	1,60	2650 5012
DoMagnet hook	29,05	1,60	2650 5178
Triangle clip hook	32,45	1,60	2650 5112
Heavy profile hook	28,60	1,60	2650 5134
Finger profile hook	28,70	1,60	2650 5234
Profile hook with protection	28,30	1,60	2650 5334
Delta-bow	31,10	1,60	2650 5056
Lashing belt of 1 segment (without hook)	19,95	1,60	1650 5000

DoMark – plus

...a label unable to be torn out or getting lost. When the typical **label will become illegible** or will get lost due to rough conditions, then the DoMark-Plus takes over the function of marking. The lashing belt, the lifting belt or the roundsling do not have to be disposed off!



article No. 0599 0055
price per piece **EUR** 0,75

DoInfo label

Now the inadequate handling of lashing belts belongs to the past. All Dolezych lashing belts will be supplied from now on free of charge to you with this extraordinary label.

- How to put the belt strip on?
- How to tighten?
- How to loosen the lashing belt?

DoInfo – the value added for you!

Lashing belts with DoMulti long lever pulling ratchet 50 mm

DoZurr 4000

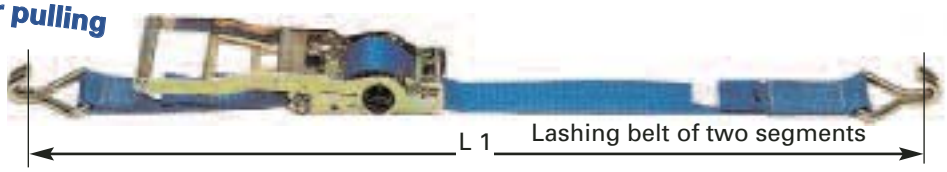
The ergonomic features of the DoMulti long lever pulling / pressing ratchet

- DoMulti may be turned round. Therefore **it is suitable for both pulling and pressing.** We supply the DoMulti installed as a pulling ratchet however, following a very simple manipulation you may change into a pressing ratchet. **And it will depend on your position: do you stand on the loading surface while lashing ? lever inconvenient in use and should the lever be pressed down? Just turn the DoMulti round and again you have a pulling ratchet.**
- The **long tensioning lever** (350 mm) and the **optimum transmission ratio** (20 teeth),i.e. light handling, achieved **up to high tension force 1000 daN**
- Four instead of two toothed wheels
- wear resistant and durably robust
- Easy to expand, reliable construction.

DoZurr 4000 with DoMulti

LC under direct pulling	LC when encircling	STF
of 2 segments	of 1 segment	
2000 daN	4000 daN	500 daN

For pulling



DoZurr 4000 with the DoMulti long lever ratchet, fixed end 0,3 m long, loose end 7,7 m long

Galvanized pressure ratchet with hand lever protection, four toothed wheels, highly expanded polyester fibre, 50 mm of width of small extension, furnished with scrub and abrasion resistance, galvanized hook

type of hook/type of end tip mount Zurrgurt mit je 2 x	price per 8 m complete **EUR**	per any add. meter **EUR**	article No.
Profile hook	49,30	1,20	2651 4034
U-profile hook	49,15	1,20	2651 4078
DoConnect hook	54,35	1,20	2651 4178
Clip hook	53,75	1,20	2651 4012
DoMagnet hook	61,70	1,20	2651 4097
Triangle clip hook	57,75	1,20	2651 4112
Heavy profile hook	53,90	1,20	2651 4134
Finger profile hook	54,00	1,20	2651 4234
Profile hook with protection	53,60	1,20	2651 4334
Delta-bow	56,40	1,20	2651 4056
Lashing belt of 1 segment (without hook)	45,25	1,20	1651 4000

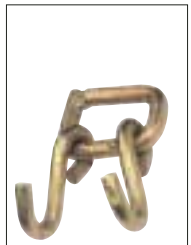
All lashing belts are also available with an overprint regarding their appropriation. Please inquire about the available quantities and qualities.

Lashing belts with DoMulti long lever pulling ratchet 50 mm

DoZurr 5000

Profile hook

U-profile hook


DoConnect hook

Clip hook

DoMagnet hook

Triangle-clip hook

heavy profile hook

Finger profile hook

profile hook with protection

Delta bow

DoZurr 5000 with DoMulti

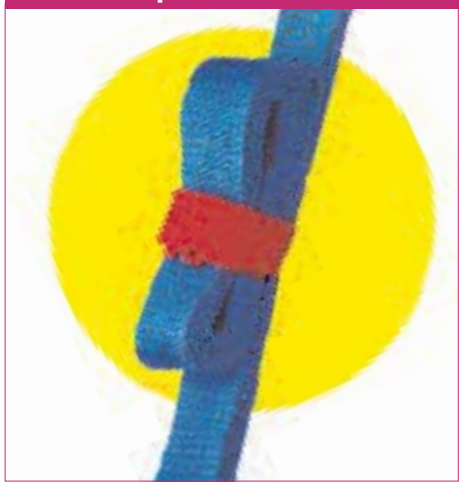
LC under direct pulling	LC when encircling	STF
of 2 segments	of 1 segment	
2500 daN	5000 daN	500 daN

DoZurr 5000 with the DoMulti long lever ratchet, fixed end 0,3 m long, loose end 7,7 m long

Galvanized pressure ratchet with hand lever protection, four toothed wheels, highly expanded polyester fibre, 50 mm of width, of small extension, furnished with scrub and abrasion resistance, galvanized hook

type of hook/type of end tip mount lashing belt with 2x	price per 8 m complete **EUR**	per any add. meter **EUR**	article No.
Profile hook	52,80	1,60	2651 5034
U-profile hook	52,65	1,60	2651 5078
DoConnect hook	57,85	1,60	2651 5178
Clip hook	57,25	1,60	2651 5012
DoMagnet hook	65,20	1,60	2651 5097
Triangle clip hook	61,25	1,60	2651 5112
Heavy profile hook	57,40	1,60	2651 5134
Finger profile hook	57,50	1,60	2651 5234
Profile hook with protection	57,10	1,60	2651 5334
Delta-bow	59,90	1,60	2651 5056
Lashing belt of 1 segment (without hook)	48,75	1,60	1651 5000

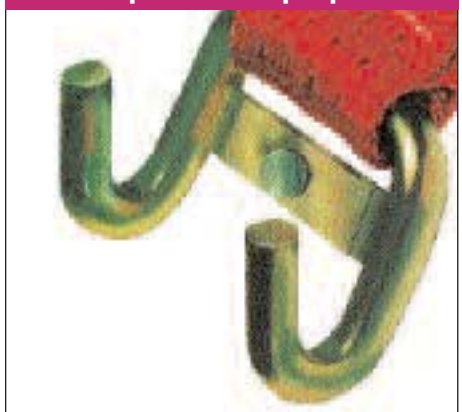
DoKlett loose end protection



The loose end does not flutter anymore like a flag in the wind. End slings and strip whips belong now to the past. DoKlett is sewed on the fixed end and can therefore be supplied only within the complete system.

for strip width of 25 mm Artikel-Nr. 1600 2524	price **EUR** 0,79
for strip width of 35 mm Artikel-Nr. 1600 3624	price **EUR** 1,48
for strip width of 50 mm Artikel-Nr. 1600 5024	price **EUR** 1,64

DoMagnet – the "third" hand for load protection purposes



The DoMagnet lashing hook adheres reliably to the frame of the truck and can not slip off during lashing on the opposite side of the truck.

DoPremium lashing belts with pressure or long lever pulling ratchet

DoPremium

What is so special with the DoPremium lashing belts...

- **Premium belt strip** with the dirt resisting lotus-effect and with special texture edges to protect side damages. The extra flat texture facilitates the application of high tension forces.
- **The Premium pressure ratchet** in a top-design, with an ergonomic handle of ratchet and an additional protection by means of a powder coating
- **Premium long lever pulling ratchet** in addition with all the advantages of the DoMulti ratchet: a 350 mm ratchet lever , an optimum transmission ratio by means of 20 teeth, tension forces up to 1000 daN to be achieved easily.

All the DoPremium lashing belts are furnished with the patented
DoConnect hook!

DoConnect – one hook and three solutions

The DoConnect may be applied at choice as a profile hook or a U-profile hook. The moveable elements of the hook make it possible to transform DoConnect in a few seconds into the desired type of hook . When wishing to connect the lashing belts or to extend them, just hook two DoConnect hooks into another.

DoConnect as a profile hook

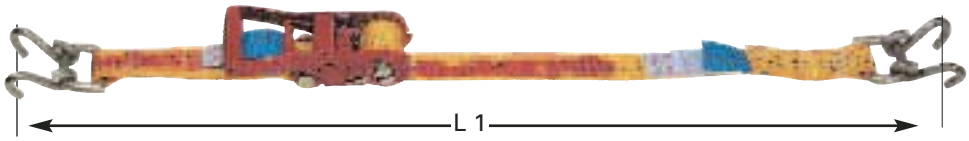
DoConnect as a U-profile hook

The Dolezych patent

2 interconnected DoConnect hooks

DoPremium 5000 with pressure ratchet

LC under direct pulling	LC under encitcling	STF
of 2 segments	of 1 segment	
2500 daN	5000 daN	250 daN



DoPremium 5000, fixed end 0,5 m long, loose end 7,5 m long

Galvanized with additional powder coated comfort ratchet with an ergonomically designed ratchet lever, with hand lever protection, two toothed wheels.
Belt strip: highly expanded polyester fibre, furnished with scrub and abrasion resistance, of small extension, additionally PU-impregnated. Galvanized hook.

type of hook/type of end tip mount lashing belt, each with 2 x DoConnect hooks	price per 8 m complete **EUR**	any add. meter **EUR**	article No.
	40,05	1,90	2650 5897

DoPremium 5000 with DoMulti long lever ratchet

LC under direct pulling	LC under encircling	STF
of 2 segments	of 1 segment	
2500 daN	5000 daN	500 daN

DoPremium 5000 with DoMulti long lever ratchet fixed end 0,5 m long, loose end 7,5 m long

Execution: as above however, ratchet with four toothed wheels

type of hook/type of end tip mount lashing belt, each with 2 x DoConnect hooks	price per 8 m complete **EUR**	any add. meter **EUR**	article No.
	71,70	1,90	2651 5897

Container protection
Hooks for superstructures
Special connecting elements

Container protection VS,50 mm of strip width, with slings

2500 daN direct pull, 3,0 m long with 250 mm long,reinforced slings on both sides,
Total lashing capacity per belt approx. 500 daN

article No.	price per piece EUR
2650 5011	29,60

Container protection VO,50 mm of strip width, with oval links

2500 daN direct pull, 3,0 m long with oval links on both sides,
Total lashing capacity per belt approx. 500 daN

article No.	price per piece EUR
2650 5113	45,70

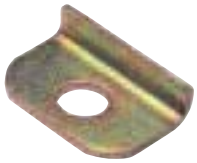
Container protection VK, 8 mm of nominal chain thickness

4000 daN of permissible lashing capacity under direct pulling, 3,0 m long with oval links on both sides. Total lashing capacity approx. 2000 daN

article No.	price per piece EUR
2985 1801	198,50

Hook for Sommer/ Ackermann-Frühauf system

article No. 0615 5097



Hook for Sommer/ Ackermann-Frühauf system

article No. 0615 5098

Hook for Sommer/ Ackermann-Frühauf system

article No. 0650 1434

Hook for the Kögel system

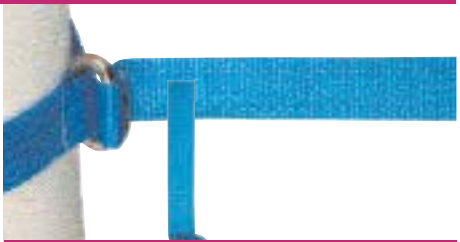
article No. 0615 5098

Special connecting elements

Regular buckle for strip width of 50mm for connecting strips without a seam

Triangle with a screw joint for strip width of 25,35 and 50 mm

U-profiled combi-hook for a 50 mm ratchet



Clips for 25, 35 and 50 mm strip width for the creation of slings in a narrow space. Please inquire.

Additional elements against inquiry or to be manufactured to order.

Lashing belts with the Do2Step long lever ratchet, with automatic reversion

Do2Step

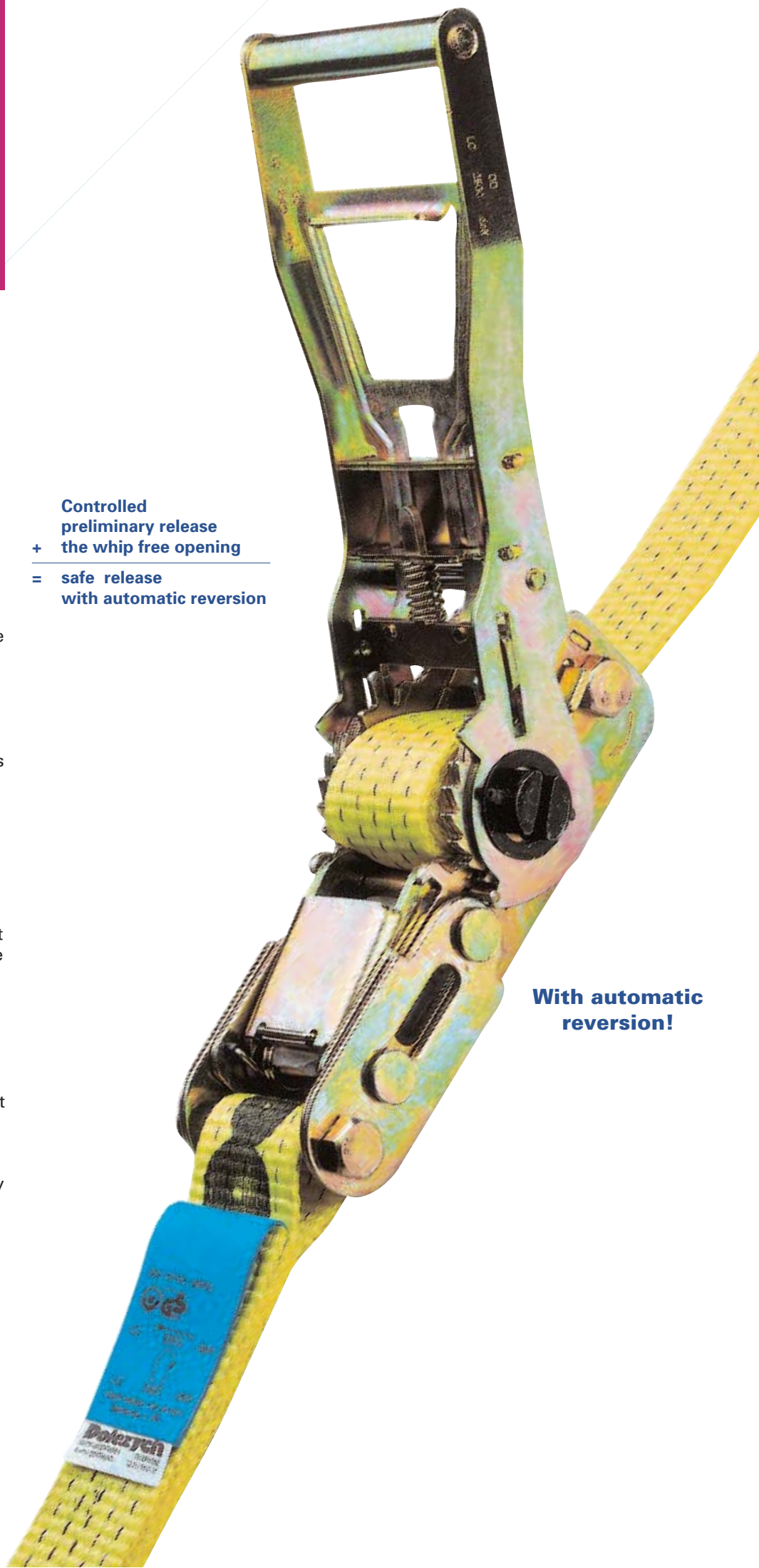
Their advantages:

- No risk for the load to slip down or overturn. No risk of being injured by the s.c. whip effect because the ratchet when loosened does not release the belt tension at once but in a controlled way.
- Comfort, because of the long lever, the 20 instead of 11 teeth and to the principle: "pulling instead of pressing", lashing is simple and with no burden to the spine.
- Strong, because the highest tension forces (1000 daN and more) may be achieved easily.
- Fast, because you may reduce the number of lashing belts,because of the high tension forces. This is less waste of time and money.
- Thanks to the automatic reversion is the ratchet after opening again operational.

...and so does it works

- Within the first step, by means of the ratchet's safety slide the auto matic preliminary releasing of the belt strip takes place (within the first step,the preliminary releasing of the belt strip takes place by means of the ratchet´s safety slick).
- The possibility of checking up the load against falling down or tilting.
- In case of a risk that the load will slip or overturn, the Do2Step ratchet may be tightened up again or the load may be protected by means of lashing
- When the load is not endangered by slipping or overturning, then it may be fully released, as usually, in the second step.

Controlled preliminary release
+ the whip free opening
= safe release with automatic reversion



With automatic reversion!

The DoInfo-Plus label

Now the wrong handling of lashing belts belongs to the past. All Dolezych lashing belts will be supplied free of charge with this extraordinary label.

- How to put the belt strip on?
- How to tighten it?
- How to loosen the lashing belt?

DoInfo – the value added for you!

Lashing belts with the Do2Step long lever ratchet

Do2Step

Do2Step... helps in a simple but most reliable way to avoid accidents which, at the moment of the lashings release, may result of unstable or slipping and then overturning and falling loads.

Profile hook

U-profile hook

DoConnect hook

Clip hook

DoMagnet hook

DoZurr 5000 with Do2Step rat-

LC under direct pulling	LC when encircling	STF
of 2 segments	of 1 segment	
2500 daN	5000 daN	500 daN

DoZurr 5000 with Do2Step long lever ratchet fixed end 0,3 m long, loose end 7,7 m long

Galvanized pressure ratchet with hand lever protection, four toothed wheels, highly expanded polyester fibre, 50 mm wide, of small extension, furnished with scrub and abrasion resistance, galvanized hook

type of hook/type of end tip mount lashing belt with 2 x	price per 8 m complete **EUR**	per any add. meter **EUR**	article No.
Profile hook	61,80	1,60	2650 5434
U-profile hook	61,60	1,60	2650 5478
DoConnect hook	65,10	1,60	2650 5479
Clip hook	65,00	1,60	2650 5412
DoMagnet hook	81,45	1,60	2650 5497

By the way: the Do2Step ratchet is a new development based on the well known DoMulti long lever ratchets. Since many years they are successfully applied with lashing indicators by the German armed forces, the Bundeswehr and by NATO!

Comparison of the Do2Step ratchet with the standard ratchet

Why, compared with the regular ratchet constructions, the Do2Step long lever ratchet has considerable advantages?

With standard ratchets the lashing belt may be regularly released in one step only, with no control if the load will overturn or not.

When a standard ratchet is opened with dosage by means of a wind up reel and this way the tension is to be reduced, the unloading personnel has to watch carefully at every lashing that there are still sufficient many wound up layers on the wind up reel.

According to standard, on the winding shaft there must namely remain 1,5 winding layers to avoid the unintentional slipping out of belt strip. Will the user overestimate, then the load may overturn.

Just try once to estimate the number of layers on the winding shaft of a ratchet when tightened ! You will see yourself that this is not possible.

Therefore: The Do2Step ratchet does not release via the winding up reel , but via a separate safety slide.

Lashing belt construction-kit for self installation

DoVario 1

The DoVario 1 lashing belt construction-kit consists of:

The long lever pulling ratchet DoMulti

The long bolt lever (350 mm) and the optimum transmission ratio (4 wheels of 20 teeth each) of the ratchet are securing easy handling and achieving high tension forces (1000 daN and more). The DoMulti is wear resistant and durably robust. It is easy to expand – of reliable construction.

DoMess 1 – the tension force indicator

The integral patented tension force indicator DoMess 1with 50 special disc springs safeguards anytime the control of implied tension force. The tension force is indicated in steps of 250 daN. This secures the optimum safety during transport.

Coiling housing

The patented tightening mechanism and the coiling housing secure the reliable hold of lashing belts in a speed of seconds. The fixed end is not sewn together with the ratchet and therefore it length may be set freely. Damaged lashing belts may be replaced without a seam easily and fast.

Housing for belt placing with a swirl-hook

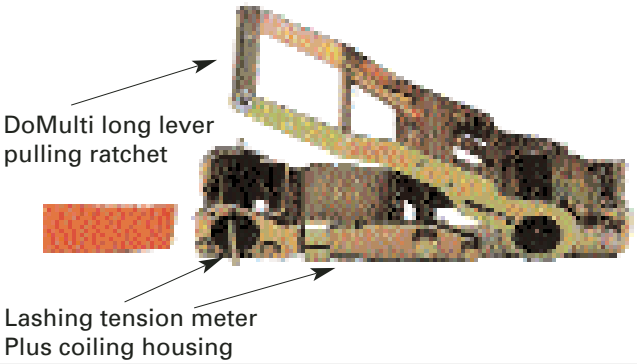
The patented swirl hook connects the lashing belt with the lashing hook seamless. Simply place it in - and ready. The hook may revolve 360°, up to 180° it can be deflected and it adapts itself optimally to any loading situation. Also the combination with a lashing chain is possible.

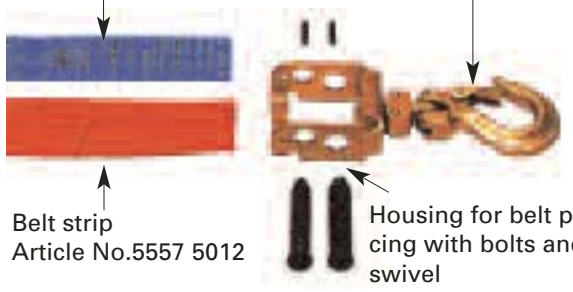
Your advantages:

- The assembly is done right on the site of application
- The length of the belt is determined by you yourself
- The length of fixed ends may be set individually
- Elements ripe for disposal are just replaced
- Worn belt strips are replaceable at a reasonable expense
- Possibility of combinations with other systems (e.g. chain block-box)
- Hooks are 360° revolvable and up to 180° can be deflected

In case of lashing belts on sale, the attached metal elements are sewed together with the belt strip. The DoVario system does not need any seams. Very accurate connections by hooks are not sewed, but possible by means of bolts and the housing for belt placing and by means of the swivel at the measuring device or at the ratchet.

DoVario ratchet with lashing tension meter plus coiling housing, article No. 0650 6005

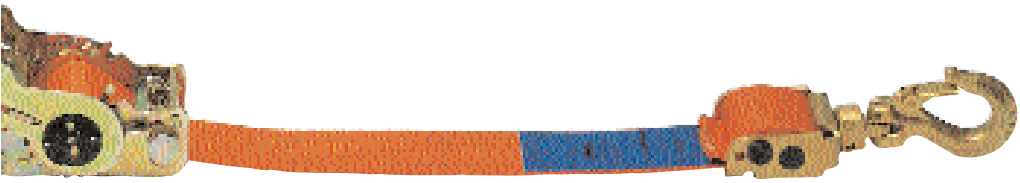




The DoVario 1 block-box system

description	article No.	price EUR
DoVario 4000 lashing belt block-box, 8 m long	2653 4012	215,00
Safety lashing hook	0651 0091	18,95
Housing for belt placing, complete with swivel and bolt	0651 0092	27,75
Label	0618 9960	1,05
Belt strip (a coil = 100 m / any other length also possible)	5557 5012	126,40
DoVario ratchet with the attached DoMess lashing tension meter and a coiling housing	0650 6005	108,05
DoVario ratchet with the coiling housing (without DoMess)	0650 6105	78,30

The system may be combined of parts being elements of the chain block-box



DoVario 1 – lashing system

The lashing belt construction-kit for self installation

DoVario 2

DoVario 2 block-construction kit

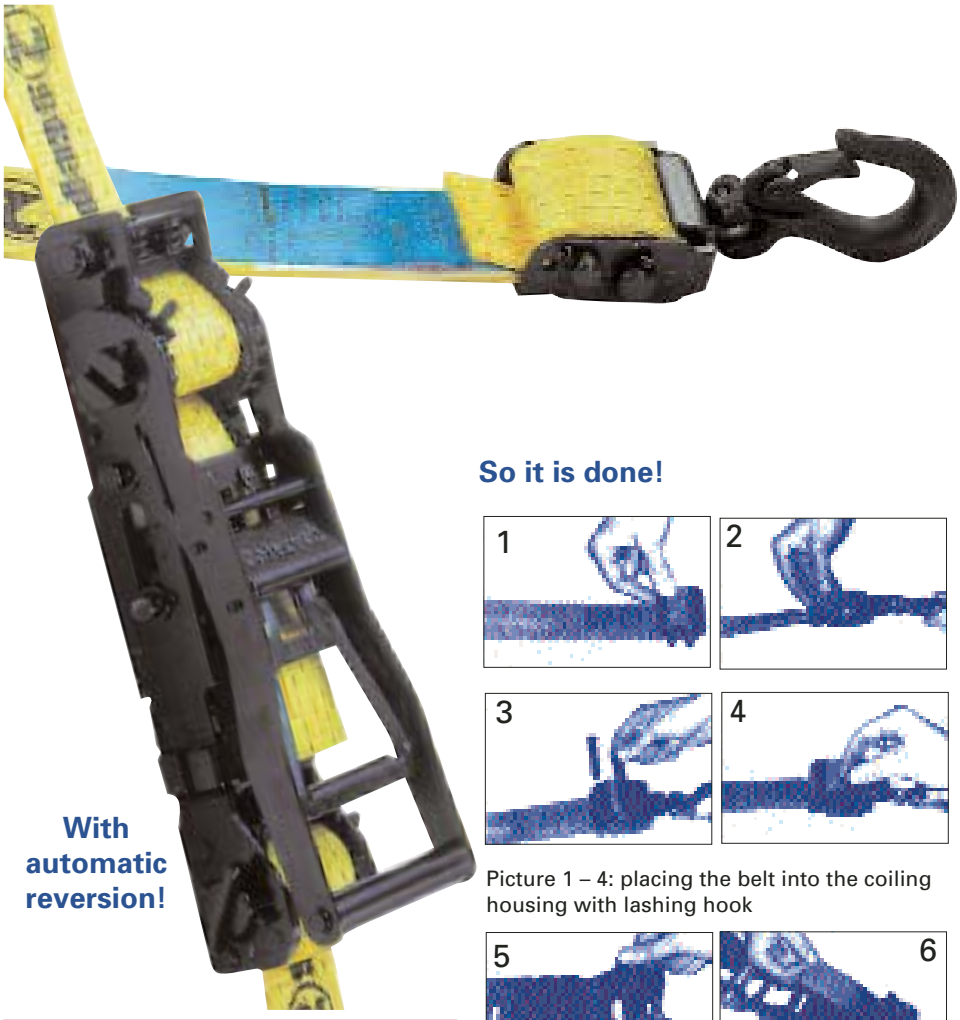
The execution of the **DoVario2**-construction-kit system is the same as in case of DoVario1-system(front side) however, it has been additionally furnished with the **Do2Step** pulling ratchet.

Do2Step pulling ratchet

The controlled preliminary releasing safeguards a safe opening of the pulling ratchet. No whip-effect when expanding. The ratchet teeth do not participate in opening but only in tightening. The expansion is not effected by the winding shaft but via a separate slide which results in a by 50% lower wear. After the automatic reversion is the ratchet, after opening it, immediately operational.

Advantages:

- Automatic reversion of the safety slide
- Highest pretension forces by lang-lever ratchet
- Optimum finger grip – easy to handle also in gloves
- Reinforced springs in the hand grip for its definitely improved safety in case of long lasting charges
- Additional bolt reinforcement for the hand grip's higher rigidity
- Particularly ergonomic thanks to the principle:"pull instead of pressing"
- 4 long life toothed wheels, each of 20 teeth
- Easy to open by hand also when under charge



With automatic reversion!

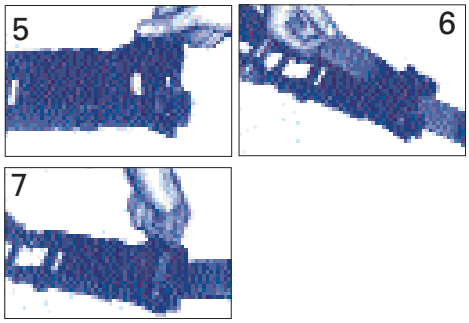
Examples:

This is what you would like to order:
Material for 10 lashing belts 8 m long, 50 mm width of strip, 2000 daN direct / 4000 daN when encircling, of 2 segments with ratchet and a clip hook

And this is your order:
10 pcs. ratchets. Art. No. 0651 6005
20 pcs. clip hooks, Art.No. 0651 0091
20 pcs. coiling housings, Art.No. 0651 0092
20 pcs. labels, Art.No. 0651 0092

So it is done!

Picture 1 – 4: placing the belt into the coiling housing with lashing hook



Picture 5 – 7: placing the belt strip into the swivel socket

DoVario1 + DoVario2

LC direct pulling	LC when hooping	STF
of 2 segments	of 1 segment	
2000 daN	4000 daN	500 daN

description	article No.	price EUR
DoVario 2 lashing belt construction-kit, 8 m long	2653 4112	254,15
Safety lashing hook	0651 0091	18,95
Housing for belt placing, complete with swivel and bolt	0651 0092	27,75
Label	0618 9960	1,05
Belt strip (a coil = 100 m / any other length also possible)	5557 5012	126,40
DoVario2 ratchet with the attached DoMess lashing tension meter and a coiling housing	0651 6005	147,25
DoVario2 ratchet with the coiling housing (without DoMess)	0651 6100	117,60

Belt-lift lashing system

Loose end wind-up reel

DeZurik

Universal canvas cover tightening belts, 45 mm belt width, black, 0,65 m long

Your advantages:

- Belt tightener made of stainless steel
- Galvanized round steel hook

article	article No.	price EUR
lashing belt, complete with dead-center tension jack	0699 4090	8,45
dead-center tension jack	0699 4091	6,35
complete lashing belt with dead-center tension jack with tiltsafety fastener	0699 4080	12,75
dead-center tension jack with tiltsafety fastener	0699 4081	10,65
sparebelt 0,65 m with roundsteel hook	0699 4092	3,35

Belt-lift lashing system 501

article No.	for the type of canvas cover	number	price EUR
0699 0121	Schiebe- und Hamburgerverdeck	1	49,05
0699 0621	Hamburger-Verdeck	6	277,00
0699 0620	Schiebeverdeck	6	255,40
0699 1221	Hamburger-Verdeck	12	524,40
0699 1220	Schiebeverdeck	12	478,80

Your advantages:

- The belt lift offers a basic improvement of load-safety
- professional and flexible positioning of loose-ends
- the exhausting handling of belts escapes (throwing belt over goods)
- the loose ends are always ready to hand
- the loading area does not have to be entered - saving time and reducing danger
- The loose ends are to be fixed in the lashing points by means of safety lashing hooks and via the belt lift lead to the user.

This saves time and money!!!

Faster loading ... with Belt-lift!

Loose end wind-up reel

For convenient and fast winding up of 50 mm loose ends.
When wound up, the loose ends can be easily arranged, they do not need much place and can be made fast operational again.

And so it is done:

1. Once the truck should be supplied with the basic platform.
2. Arrange the winding up mechanism in the basic platform
3. Wind-up the belt strip
4. Take the belt strip away
5. Store the belt strip
6. Remove the winding-up mechanism and keep it in a trunk

article No.	price per piece	EUR
0600 0078		39,90

Dolezych manufacture lashing belts, roundslings and lifting belts of black strip material for theatre and stage use.

Furniture carrying belt
Lashing belts with plastic ratchet
Lashing trays and hooks

DoZuri

Furniture carrying belt

article No.	price per piece	EUR
0599 0000		71,60

Heavy duty version with leather trimming and felt-reinforced carrying hook

- for every human stature because continuously variable adjustable
- comfortable carrying without cutting in body thanks to a wide shoulder patch.

Lashing belt with a colored plastic ratchet for a belt strip of 25mm, 250 daN

Plastic ratchet for a lashing belts of 25mm. Available in signal colors, red, green, blue and yellow. Admissible lashing capacity 250 daN hooping. Available in standard lengths of 2.5, 4 and 5 m.

Ideal for leisure time and hobby application.

Prices on request!

Lashing catches according to DIN EN 12640

Lashing tray of 3 elements, for fastening with screw

article No.	0600 0001
price per piece	**EUR** 11,00

Lashing tray for welding

article No.	0600 0009
price per piece	**EUR** 26,55

Lashing tray for welding

article No.	0600 0016
price per piece	**EUR** 29,90

Lashing hook for welding

article No.	0602 6500
price per piece	**EUR** 8,90

Lashing hook, for fastening with screw

article No.	0602 6501
price per piece	**EUR** 34,90

Lashing hook for welding

article No.	0600 0013
price per piece	**EUR** 22,40

Heavy load protection for diagonal lashing
50 - 75 mm belt width

PowerLash

LCx direct pull	LC hooping
4000 daN	8000 daN

PowerLash 8000

- compared to a 8 mm lashing chain of 3,5 m lenght with tensioning ratchet, there is a weight saving of 50% (for same LC of 4000 daN) when using a spindel tension-jack there is still a saving of 35%. Webbing width only 50mm!
- cost saving of 65% compared to tensioning ratchets and spindle tension-jack.
- easy, faster and pleasent handling thanks to textile webbing, of course without losing quality 5,3 mm. The webbing shows a thickness of 5,3 mm and is extremely tear-resistant.

PowerLash 8000, webbing width of 50 mm
Short end 0,5 m long, long part 3,5 m long

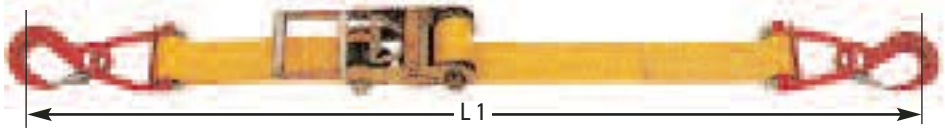
type of hook/end-fitting lashing belt, each with 2 x	price per 4 m complete **EUR**	price per any add. meter **EUR**	article No.
triangle-clip hook	80,60	2,40	2650 8112
profile hook	61,90	2,40	2650 8034
triangle	67,80	2,40	2650 8056

Webbing width of only 50 mm....the textile lashing chain!!!

LC direct pull	LC hooping
5000 daN	10000 daN

PowerLash 10000, webbing width of 75 mm
Short end 0,5 m long, long part 3,5 m long

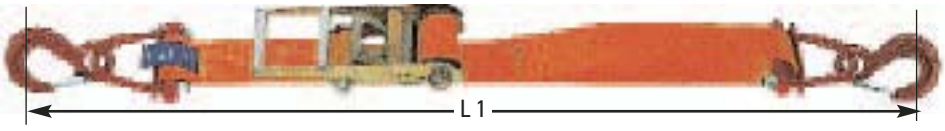
type of hook/end-fitting lashing belt, each with 2 x	price per 4 m complete **EUR**	price per any add. meter **EUR**	article No.
triangle-clip hook	203,50	6,10	2675 0002
profile hook	181,10	6,10	2675 0034
U-profile hook	185,30	6,10	2675 0078



LC direct pull	LC hooping
10000 daN	20000 daN

PowerLash 20000, webbing width of 75 mm
Short end 0,5 m long, long part 3,5 m long

type of hook/end-fitting lashing belt, each with 2 x	price per 4 m complete **EUR**	price per any add. meter **EUR**	article No.
triangle-clip hook	221,60	11,60	2675 0001



Heavy load protection webbing width of 100 mm

Lashing winches

PowerLash

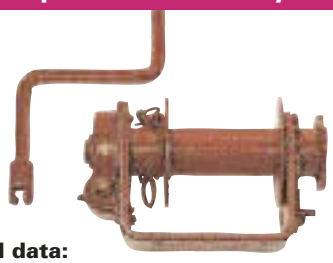
PowerLash 10000, webbing width of 100 mm
Short part 0,5 m long, long part 3,5 m long

type of hook/end fitting lashing webbing, each with 2 x	price per 4 m complete **EUR**	price per any add. meter **EUR**	article No.
triangle-clip hook	217,30	6,602610 0002	

LC direct pull	LC hooping
5000 daN	10000 daN

*Lashing winches for load protection with a self dragging, back-stroke free worm gear meeting the requirements of Branch Associations (corresponding with the BGV D8 regulation on accident prevention)

Webbing and steel wire lashing winch with integrated gear (also accepted for Germany)



Technical data:

Tension force:	500 daN
Retention force:	2000 daN
Webbing measurements:	50 x 3 mm
Wire-rope diameter, max.:	9 mm
Weight:	10 kg

Winch dimensions

Total hight:	176 mm
Width:	310 mm
Width from the bottom edge of plate to be screwed down, up to drum center	120 mm
Hole form of screwed down plate: 65 x	125 mm
Hole diameter:	10,5 mm
External drum diameter:	57 mm
Inside diameter between the flange shields of drum	110 mm

Webbing and steel wire lashing winch (without the hand lever)

article No.	price **EUR**
0600 0005	111,20

Handlever, removable

article No.	price **EUR**
0600 0010	12,75

Webbing and steel wire lashing winch with attached gear (also accepted for Germany)

Technical data:

Tension force:	500 daN
Retention force:	2000 daN
Webbing measurements:	50 x 3 mm
Webbing coiling length:	3 m
Wire-rope diameter, max.:	8 mm
Wire-rope coiling length:	9 m
Crank pressure:	18 daN
Transmission ratio:	25:1

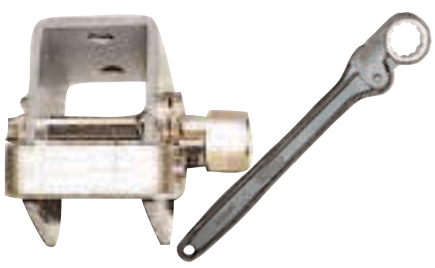
Winch

article No.	price **EUR**
0600 0007	100,05

Gear, removable

article No.	price **EUR**
0600 0008	245,50

Webbing winch (without back-stroke protection, not acceptable in Germany)



Technical data

Acceptable lashing capacity (when encircled)	4000 daN
Tension force	500 daN

article No.		price **EUR**
0600 0006	belt winch	23,65
0600 0010	stretching ratchet	16,55

Lashing chains with DoClick quality class 8 VDI 2701, DIN EN 12195-3

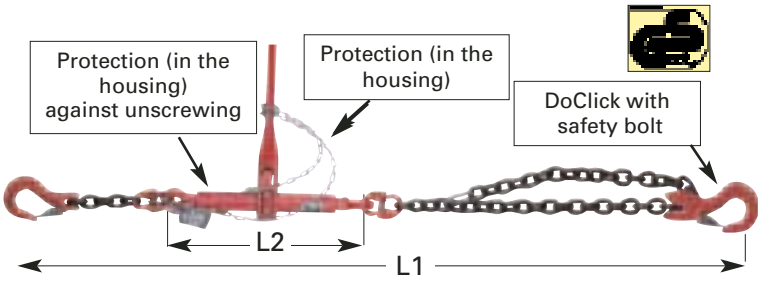
PowerLash

The new lashing hook with an integrated possibility of shortening and with a protection for lashing chains! Saving construction elements, time and money. Now a separate shortening clew is not necessary, because this element make in one: the lashing hook and the shortener.

So it works!

DoClick is to be hooked in the required position at the long end of lashing chain. The safety pin of the hook is at the same time the by the EU standard EN 12195-3 required protection against the unintentional loosening of the shortened section.

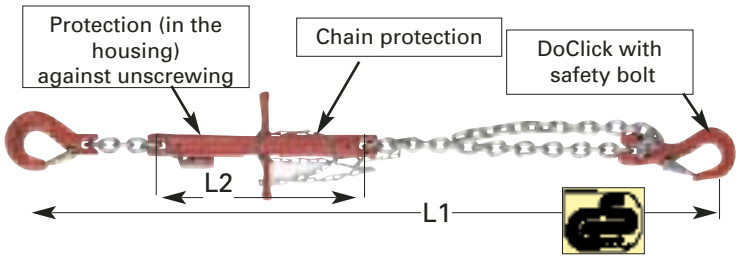
DoClick L 140, with load-ratchet-tensioner



article No.	nominal size mm	closed tensioner L2 min.	stretching distance mm	admissible LC daN	3,50 m price per pce **EUR**	price per any add. meter **EUR**
2982 0801	8–8	320	140	4.000	188,00	10,00
2982 1001	10–8	460	240	6.300	227,70	13,20
2982 1301	13–8	550	270	10.000	278,87	22,90

Load ratchet tensioner with a screwing out protection ; protection against corrosion and dirtying; easy to handle by means of a safety-catch at the lever.

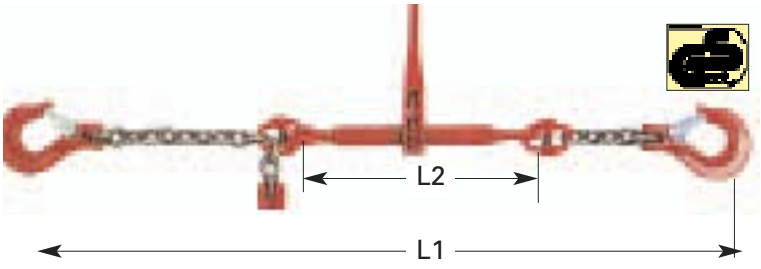
spindle-tensioner



article No.	nominal size mm	closed tensioner L2 min.	stretching distance mm	admissible LC daN	3,50 m price per pce **EUR**	price per any add. meter **EUR**
2981 0601	6-8	220	90	2.200	179,10	8,00
2981 0801	8-8	320	140	4.000	214,70	10,00
2981 1001	10-8	460	240	6.300	282,30	13,20
2981 1301	13-8	550	270	10.000	319,00	22,90
2981 1601	16-8	555	280	16.000	670,55	25,20

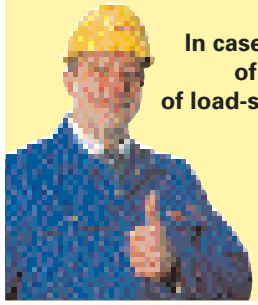
Spindle tightener with a closed housing; protected against screwing out; protected against corrosion and dirtying; high quality execution, also suitable for lifting purposes.

PowerLash L-140, with load-ratchet-tensioner. With screwing out protection and protected shortening claw



article No.	nominal size mm	closed tensioner L2 min.	stretching distance mm	admissible LC daN	3,50 m price per pce **EUR**	price per any add. meter **EUR**
2985 0601	6-8	235	70	2.200	157,15	8,00
2985 0801	8-8	335	180	4.000	190,40	10,00
2985 1001	10–8	335	180	6.300	236,10	13,20
2985 1301	13–8	345	180	10.000	307,25	22,90

The standard length for lashing chains L=3500 mm (closed tightener); with safety chain and protection against screwing out. Any length is available!



In case of combination of different means of load-safety-protection (chains/belts), the strength should be coordinated.

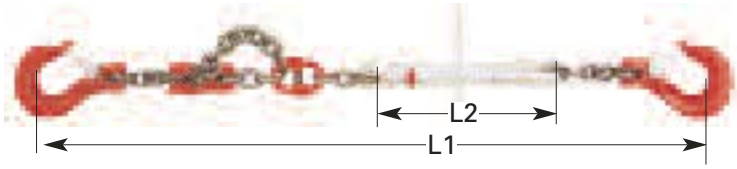
The often expressed opinion:"the load is so heavy, that nothing can happen"is proving itself in practis disastrous. This is why careful lashing is so important.

The standard length for lashing chains L=3500 mm (closed tightener); standard execution with chain protection and protection against screwing out. Any length is available!

Lashing chains quality class 8 VDI 2701, DIN EN 12195-3

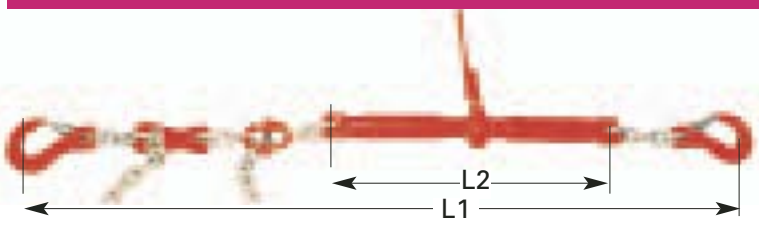
PowerLash

PowerLash SP, with spindle tightener. With screwing out safety and shortening claw with safety



article No.	nominal size mm	closed tightener L2 min.	stretching distance mm	admissible LC daN	3,50 m price per pce **EUR**	price per any add. meter **EUR**
2983 0601	6–8	220	90	2.200	192,45	8,00
2983 0801	8–8	320	140	4.000	220,90	10,00
2983 1001	10–8	460	240	6.300	288,10	13,20
2983 1301	13–8	550	270	10.000	352,00	22,90
2987 1601	16–8	555	280	16.000	on request!	

PowerLash L-160, with comfort load lashing ratchet and shortening claw



article No.	nominal size mm	closed tightener L2 min.	stretching distance mm	admissible LC daN	3,50 m price per pce **EUR**	price per any add. meter **EUR**
2986 0801	8–8	320	140	4.000		
2986 1001	10–8	460	240	6.300	on request!	
2986 1301	13–8	550	270	10.000		

Load lashing ratchet with closed housing; with a screwing out safety; protected against corrosion and dirtying; easy to handle by means of a click at the lever.

*

article No.	nominal size mm	stretching distance mm	admissible LC daN	3,50 m price per pce **EUR**	price per any add. meter **EUR**
0380 1411	6-8	90	2.200	1,12	99,00
0380 1412	8-8	140	4.000	2,00	106,80
0380 1413	10-8	240	6.300	3,15	140,30
0380 1414	13-8	270	10.000	5,30	173,25
0380 1703	16–8	280	16.000	on request!	

* May also be installed in slinging chains for lifting purposes for fixing the exact length.

Load ratchet tightener L – 140 (single) with screwing out protection and a parallel hook with protection

article No.	nominal size mm	stretching distance mm	admissible LC daN	3,50 m price per pce **EUR**	price per any add. meter **EUR**
0380 1400	6-8	170	160	2.200	94,60
0380 1401	8-8	356	203	4.000	99,20
0380 1432	10-8	356	203	6.300	104,40
0380 1403	13-8	356	203	10.000	128,10

..... available also without hook

Comfort ratchet tightener L – 160 (single) with screwing out protection*

article No.	nominal size mm	stretching distance mm	admissible LC daN	lifting capacity at lifting chainst	price per pce **EUR**
0380 1601	8-8	140	4.000		
0380 1602	10-8	240	6.300	on request!	
0380 1603	13-8	270	10.000		

Load lashing ratchet with closed housing; with a screwing out safety ; protected against corrosion and dirtying; easy to handle by means of a click at the lever.

* May also be installed in slinging chains for lifting purposes for fixing the exact length.

Tension force measuring devices Protractor

DoMess 3

For all 50 mm belts – one device only. That's mobility!

4 seconds for your safety!

For determining the tension force you need only 4 seconds: put the device onto the tightened lashing belt, turn the lever, read out the tension force – ready!

DoMess 3 – mobile pretensioning measure device

article No. 0650 4032 price **EUR** 250,00

Their advantages:

- DoMess 3 is not permanently built in. It is attached loose to the lashing belt(-s).
- More safety, because you may read out how much pretensioning force has been applied to the system and by this, you may control all pretensioning force.
- Reasonable, because you need less lashing belts.
- Time saving, because less lashing belts have to be applied.
- Both the lashing side as well as the opposite side may be controlled by one device.

Meeting the requirements of DIN EN 12195-2

DoMess 2 – pretensioning measure device for all 50 mm

DoMess 2 enables reading out tension forces according to EN 12195-2. It may be interconnected with the ratchet or loose attached to it.

article No. 0650 4099 price on demand

DoMess 1 for ropes, please inquire.

DoMess 1 for chains, please inquire.

The Dolezych protractor

article No. 0699 9990 price **EUR** 5,50

Specify with two protactor discs exact and reliably the vertical angle α (for frictional lashing) and the vertical angle α and horizontal angle β (for diagonal lashing).

With exact angle – data one can assign precise the needed number of lashing-belts and their dimensions, so it is may possible to need less or lower dimensioned lashing.

The static friction is always bigger than the sliding friction! Static friction is the resisting force with which a resting body opposes the shifting on the surface of resting. Sliding friction is the resisting force with which a sliding body opposes its further shifting on the surface of resting.

Trucker's disc
Load protection software
Do.L.O.R.E.S

DoZurr

The Trucker's Disc was designed for everyone who is responsible for the loading and transportation of goods on trucks.

- The required load securing for your load is determindet on just 2 sides.
- One side is for frictional lashing – here the different pretensioning forces and frictional coefficients determine the number of lashings according to lashing angle α.
- The second side is for diagonal lashing. Here, according to the vertical angle α and horizontal angle β and the frictional coefficients as well as the load which is to be secured in tons, the required permissable tensile force of the lashing (e.g. DoZurr 5000) can be read out.

With help of the Trucker's Disc you can determine the correct number of lashings in a simple and fast way.

article No. 0699 9999 price **EUR** 5,50

Do.L.O.R.E.S. – the load protection calculation software according to DIN EN 12195-1

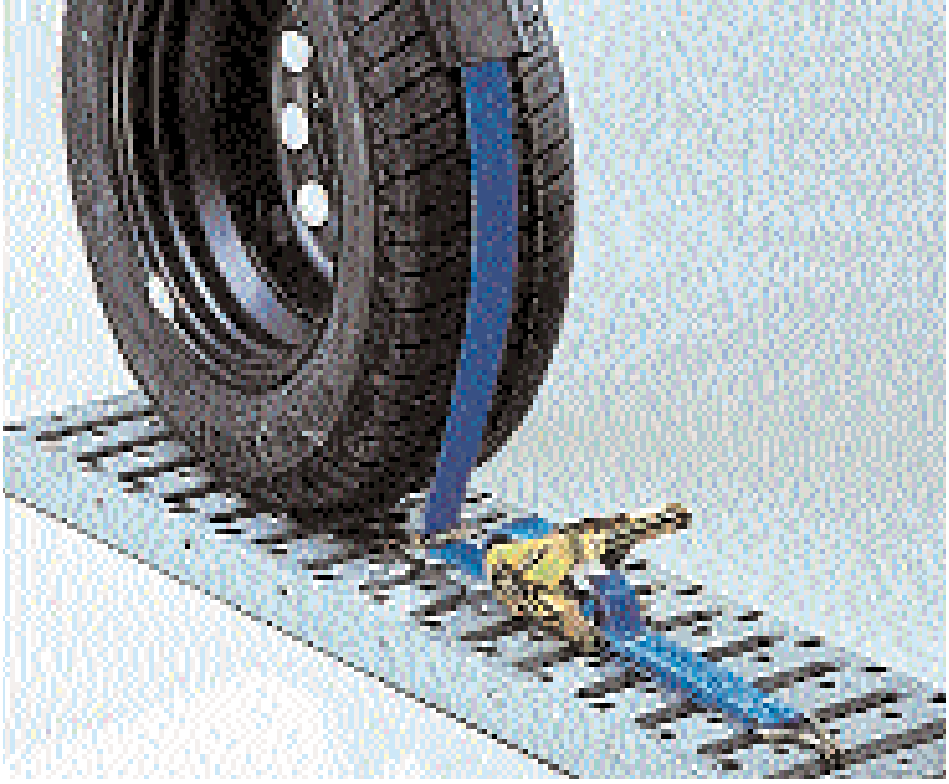
Do.L.O.R.E.S. – is our new load protection calculation software. Do.L.O.R.E.S. is an abbreviation of in German: "Dolezych Ladungssicherung Optimiertes Rechnergestütztes Experten System" (the optimizated, computer supported load protection system of experts of Dolezych). With this software you determine the exact number of essential lashing and their dimensions. Due to use of modern programming technic an user-friendly and easy to operate software for loading-security was designed.

Dolores may be applied optionally in the assistant or expert mode. The assistant mode supports the input of data and leads to the result on the shortest way. The expert mode offers several input possibilities and calculates the essentional load-protection even on behalf of combination of different lashing systems.

article No. 6699 1011 price **EUR** 168,00

Lashing webbings of 35 + 50 mm belt width for PKW (passenger cars)

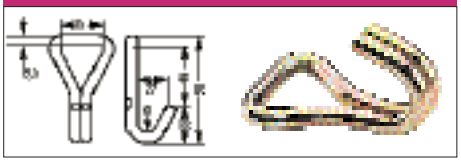
DoZurr



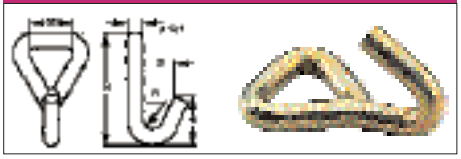
DoZurr 3000, 35+50 mm

LC direct pull	LC hooping
of 2 segments	of 1 segment
1500 daN	3000 daN

Profile hook for 35 mm



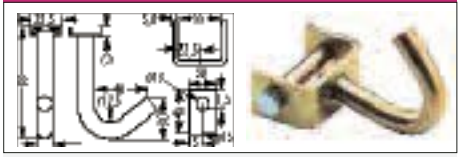
Finger-profile hook for 35 mm



Finger-profile hook for 50 mm

Finger-profile hook with big wrench opening, for 50 mm

Finger-profile hook with big wrench opening, swivel version, for 50 mm



Finger-profile hook with big hook throat width,with swivel an alternative to the stiff gliding hook

article No. 0635 0009 price **EUR** 4,65

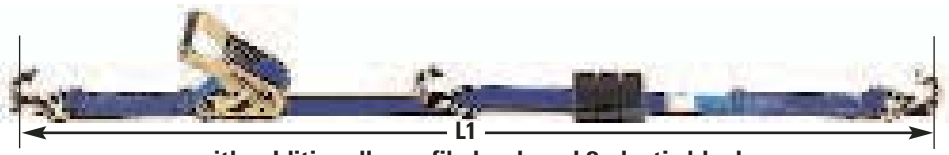
DoZurr 3000, lashing webbing for cars, 35 mm webbing width Short part 0,15 m long, long part 2,45 m long

type of hook/end-fitting lashing belt, each with 2 x	price per 2,60 m full set **EUR**	article No.
profile hook	16,90	2635 1009
finger profile hook	17,25	2635 1012

with additionally pulled over profile hook and 3 small plastic blocks

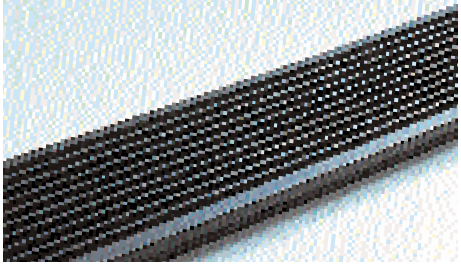
DoZurr 3000, lashing webbing for cars, 50 mm webbing width Short part 0,15 m long, long part 2,45 m long

type of hook/end-fitting lashing belt, each with 2 x	price per 2,60 m full set **EUR**	article No.
Finger profile hook	17,95	2650 3134
Finger profile hook with big throat	19,50	2650 3234



with additionally profile hook and 3 plastic blocks

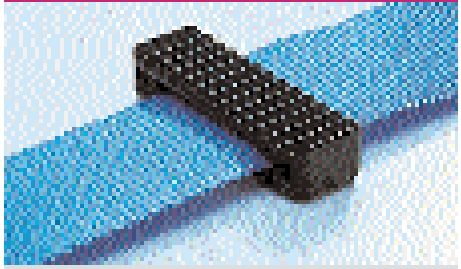
Solid rubber hose as sliding hindrance



Pulled loose over the belt strip makes equal tension force distribution possible! For 35 + 50 mm width of belt, 0,75 mm long

article No.	price per piece **EUR**
0650 0056	6,45

Small plastic blocks as sliding hindrance, min. 3 pcs per belt



Pulled loose over the belt strip makes equal tension force distribution possible! For 35 + 50 mm width of belt.

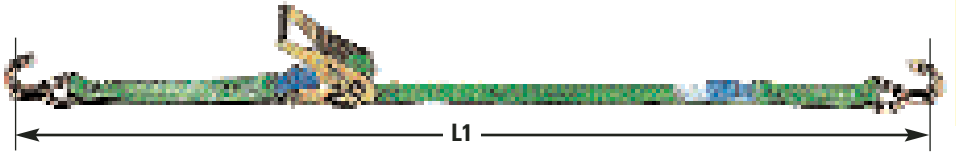
article No.	price per piece **EUR**
0699 5002	1,25

Lashing webbing with ratchet
35 mm webbing width welded together lashing belts 18-25 mm

DoZurr

DoZurr 2000, 35 mm webbing width short part 0,3 m, long part 5,7 m

type of hook/end-fiting lashing belt, each with 2 x	price per 6 m complete **EUR**	per any add. meter **EUR**	article No.
Profile hook	15,20	1,00	2635 2056
U-profile hook	15,40	1,00	2635 2012
Clip hook	15,55	1,00	2635 2034
Lashing belt, of one segment (without a hook)	13,30	1,00	1635 2000



LC direct pull	LC hooping	STF
of 2 segments	of 1 segment	
1000 daN	2000 daN	200 daN

U-profile hook	snap-hook	profile hook

Lashing webbing of 1 or 2 segments with ratchet and a profile hook is also available in the stainless steel execution. Please inquire!

Welded lashing webbing – a reasonable alternative to webbing lashing sewed

- webbing width 18 – 25 mm, 200 – 500 daN breaking-strength
- invisible connection due to an innovative „mirror-welding-technic“, which meets highest design requirements
- same quality as a sewed lashings
- short delivery time for high quantities
- company’s emblem and labels on request
- available in different colors according to your request
- cheaper compared the sewed belts in case of high quantities
- numerous designs available, even with plastic fittings

Multifunctional application:

- as safety belt for surf-boards, bikes and several kinds of packing
- as lashing-belt for long material, flower bushes and other goods
- for bunching of load units
- as reusable lacing-cord
- as fit-up aid for fair constructions
- as one-way lashing for warehouse commissioning
- And what is your application?

Prices on request.

End fittings for welded lashing belts

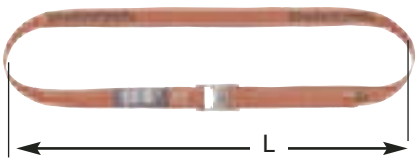
Lashing webbings of 25 mm webbing width with clamp or ratchet

DoZurr

One and two pieces lashing belts with ratchets and profile hook also available in stainless steel execution. Please inquire!

Hoist free

Lashing webbings with belt clamps DoZurr 250-600 for one-piece hooping, 4 m long, complete set; when ordering 2 x L = pls. inform of circumference

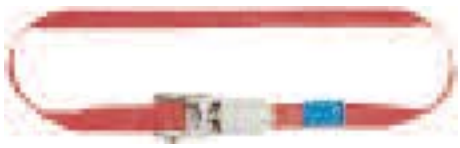


encircling	article No.	width mm	price EUR	price per any add. m EUR
200 daN	1618 0251	18	3,70	0,40
250 daN	1625 0251	25	4,15	0,50
350 daN	1625 0350	25	4,70	0,70
450 daN	1625 0450	25	5,65	0,80
600 daN	1625 0600	25	5,95	0,80
650 daN	1640 0650	35	6,20	1,00

LC direct pull	LC hooping	STF
one-piece	two-piece	
250 daN	500 daN	125 daN

DoZurr 500, 25 mm webbing width
Fixed end 0,3 m long, loose end 3,7 m long

type of hook/end-fitting lashing belt, each with 2 x	price per 4 m complete set EUR	price per any add. meter EUR	article No.
Profile hook	8,60	0,60	2625 0534
Delta bow	9,50	0,60	2625 0578
Clip hook	9,90	0,60	2625 0512
lashing belt, of one segment (without a hook)	6,00	0,60	1625 0501



LC direct pull	LC hooping	STF
one-piece	two-piece	
500 daN	1000 daN	250 daN

DoZurr 1000, 25 mm webbing width
Fixed end 0,3 m long, loose end 3,7 m long

type of hook/end-fitting lashing belt, each with 2 x	price per 4 m complete set EUR	price per any add. meter EUR	article No.
Profile hook	14,05	1,00	2625 1034
Delta-Delta bow	15,10	1,00	2625 1056
Clip hook	15,10	1,00	2625 1012
lashing belt, of one segment (without a hook)	9,25	1,00	1625 1000

Profile hook long version article No. 0610 0002	Delta bow article No. 0602 5002	Clip hook article No. 0635 0005

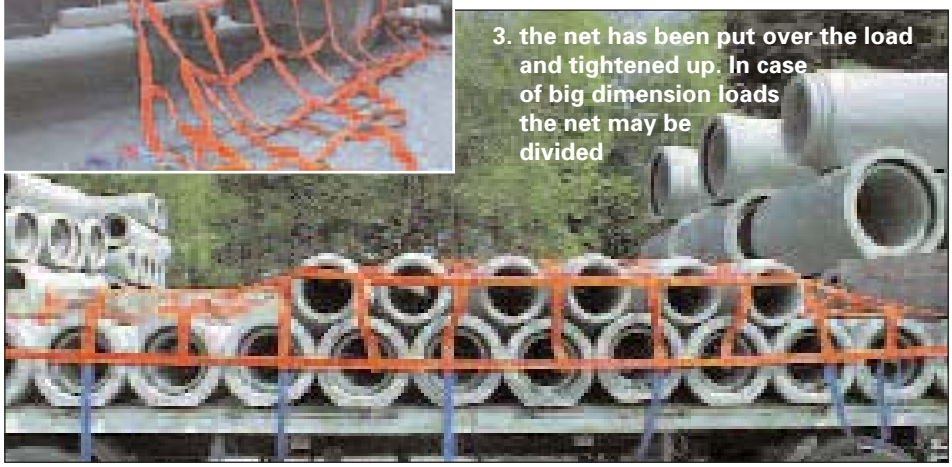
Further combination possibilities for the webbing

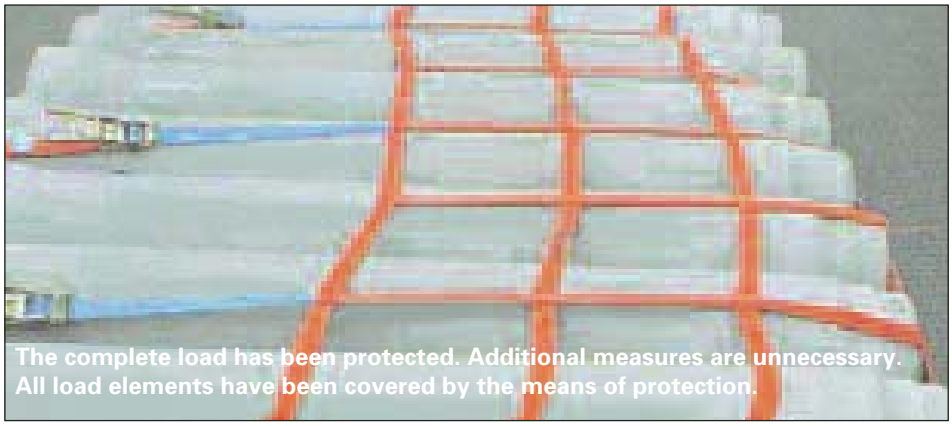
profile hook, short version
article No. 0602 5003

claw kook
article No. 0602 5005

flat hook
article No. 0602 5015

flat hook with spring protection
article No. 0602 5007




The complete load has been protected. Additional measures are unnecessary.
All load elements have been covered by the means of protection.

Safe-net
the individual net solution

DoZurr

Protection nets of webbing for a perfect load protection of e.g.

- concrete pipes
- paper rolls
- packaged goods
- wooden trienks
- as net cover on trucks or trailers
- as partitions in motor- cars
- as load safety in mobile workshops or pick-up cars

Please let us have some information enabling us to submit you an offer.

Kind of load: .....

Weight: .....

Load dimensions: .....

Load platform dimensions:.....

If front wall available: .....

Front wall dimensions: .....

Type of the side walls: .....

Surface pairs: .....
(wood/concrete, wood/steel, wood/wood)

Number, sizes and distances between the lashing points:

.....

Sender:

Name/surname: .....

Company/ position: .....

Street/No.: .....

Postal code/ place: .....

Phone: .....

Fax: .....

Please draw below your load and the lashing points and specify in the sketch dimensions and distances. Pls. take a copy of this page fill it in with your address and send by fax to Dolezych.

Suitcase sets for hobby and professional use

DeZurr

Attention!
Even square timbers, used as backing or interleaving can become to a roll. Please consider VDI 2700.

Suitcase set I

2 x one-piece lashing belt, width 25 mm, length 4,0 m, with belt clamps, admissible lashing capacity of 250 daN (hooping).

article No. 2692 0250 price per set **EUR** 9,25

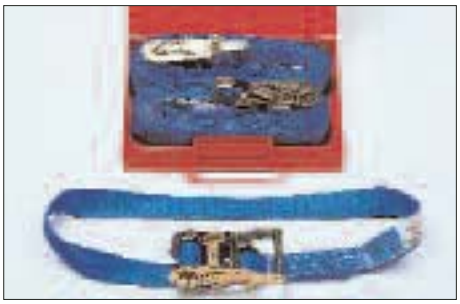
Suitcase set II

2 x one-piece lashing belt, width 25 mm, length 4,0 m, with belt clamps, admissible lashing capacity of 250 daN (hooping).

article No. 2692 0501 price per set **EUR** 10,85

Suitcase set III

2 x one-piece lashing belt, width 35 mm, length 6,0 m, with ratchet, admissible lashing capacity of 2000 daN (hooping).



article No. 2692 2001 price per set **EUR** 31,35

Suitcase set IV

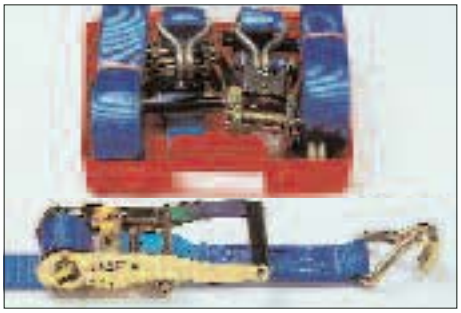
2 x two-piece lashing belt, width 35 mm, length 6,0 m, with ratchet, admissible lashing capacity of 2000 daN (hooping) and profile hook.

article No. 2692 2056 price per set **EUR** 34,65

All sets delivered in suitcases!

Suitcase set V

2 x two-piece lashing belt, width 50 mm, length 8,0 m, with ratchet, admissible lashing capacity of 400 daN hooping.



with profile hook price per set **EUR** 44,35
article No. 2692 4034

with U-profile hook price per set **EUR** 43,05
article No. 2692 4078

with clip hook price per set **EUR** 45,85
article No. 2692 4012

Assembly-Suitcase set VI

1 x chain-suspension, grade 8, two-legs, 1,5 m, nominalsize 6-8 mm, including 2 shortening hooks and safety-load-hook, carrying capacity 1,6 t
(angle of inclination 0 - 45°),
1 x roundsling WLL 1,0 to,
2,0 m length (circumference).

article No. 2692 0002 price per set **EUR** 118,60

Arrange your suitcase yourself. Ask us – the specialists .

Off-Road set

1 universal salvage belt, 10,0 m long, 50 mm webbing width, both sides reinforced eyes, 8000 kg of tensile strength as salvage belt/towing belt or 1000 kg of lifting capacity – as lifting belt + 2 high tensile connecting-shackles of 13000 kg tensile strength or 3250 kg lifting capacity + 2 universal lashing belts with ratchets, 6,0 m long, 35 mm wide, of one-piece, 2000 daN of admissible lashing capacity + 1 pair of protecting gloves + 1 metal suitcase.

article No. 2692 0001 price per set **EUR** 70,60

Attention! Anti-slip mats are no edge protection, they do not transfer tension forces of the lashing belt. You will find the DoLex edge protections for lashing webbing on page 109.

Anti-slip mats

DoMatt

Why anti-slip mats?

Anti-slip mats improve the friction coefficient when wet or dry to μ = 0,6

- They increase safety, improve the standstill properties

What does it mean?

- Less total tension force to be applied under down lashing
- Less total acceptable lashing capacity under diagonal lashing
- Lower tension forces are necessary
- Less means of lashing

Anti-slip mat

article No.	dimensions mm	thickness mm	price per pce **EUR**
0610 1108	5000 x 250	8	27,95
0610 1121	5000 x 125	8	15,60
0610 1122	600 x 600	8	5,95
0610 1107	120 x 180	8	0,60
0610 1109	200 x 300	10	1,50
0610 1104	1250 x 1250	4	14,45
Heavy duty version			
0610 1010	1000 x 1000	10	34,35
For paper loading			
0610 1147	600 x 150	3	1,00
0610 1148	20000 x 150	3	21,90

Universal anti-slip mat for car trunks

article No.	price/piece **EUR**
0610 1104	14,45

Dimensions 1250 x 1250 x 4 mm

- offers high stability to the car trunk contents
- may also be combined with nets
- for an optimum load safety
- easy to dimension by means of shears or carpet knife
- form stable execution (does not fold when lying in the trunk)

Anti-slip mat

Special anti-slip paper
(on inquiry)

Anti-slip net fabric
(on inquiry)

Dolezych safety recommendations for lashing

DoMulti – a comfort ratchet

It guarantees high tension forces, up to 1000 daN. Depending on how the ratchet is fixed, the lashing may take place by means of pulling or pushing of the hand grip.

DoStep – ratchet

Safe unloading in case of loads endangered by gliding or falling over.

DoMess 3

World's first mobile lashing measuring device read-out in 250 daN steps to enable you lashing according to legal regulations. Only one measuring device for an unlimited number of lashings on your truck.

DoMatt – anti-slip mat

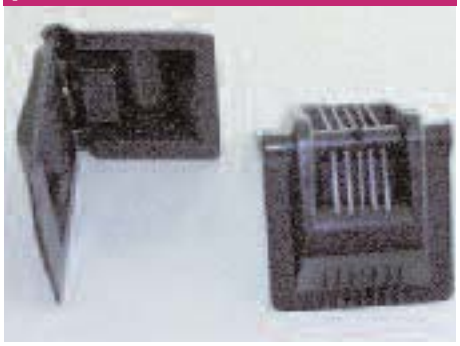
helps to save means of lashing and protection forces, i.e. down lashing with 2 lashings of up to 12 000 kg of load weight (without an anti-slip mat – only up to 2000 kg of load weight), diagonal lashing with 4 means of lashing at accept. LC of 2500 daN up to 19250 kg of load weight (without an anti-slip mat – only up to 2500 kg of load weight). The Dolezych easy-method will help you in selecting the adequate means of lashing and in determining the best lashing method according to VDI-Instructions 2700 and to the DIN EN 12195 standard.

Trucker's Disc – the disc for proper lashing

down lashing or diagonal lashing: just read out the required number of lashing belts and/or their dimensions on that cute disc.

Edge protection corner

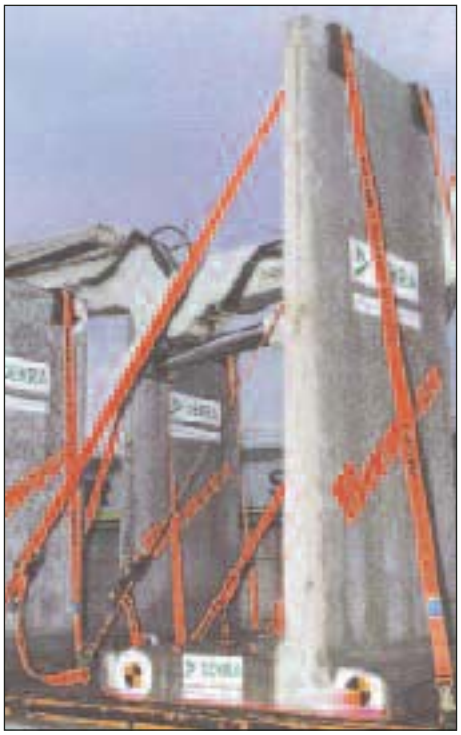
DoLight plastic edge protection



for transport of standing, lying or edge pressure susceptible goods such, as e.g. paper rolls

- reliably protects of edges
- pressure distribution on large surfaces
- easy to stock
- light design
- for belt width of 50 mm

article No.	article	price per pce EUR
0600 0062	edge protection corner, 50 mm	6,65

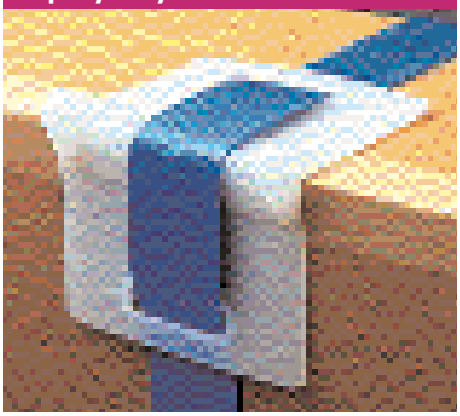


BoKas aluminum edge protection corner

- for transport of standing and lying paper rolls
- extremely stable execution
- with anti-slip coat on the side of putting on
- recommended by paper mills
- for belt width of 50 mm

article No.	article	price per pce EUR
0600 0063	edge protection corner	44,02

edge protection corner bead of polyethylene



- ideal edge protection for all sensitive and fragile goods in transit
- protect reliably when lashing and bundle belts are used. The wide surface which is put on the edge, distributes the tension force in an favourable rate.

article No.	article	price per pce EUR
0600 0014	edge protection corner, 50 mm	2,05

edge protection corner of metal

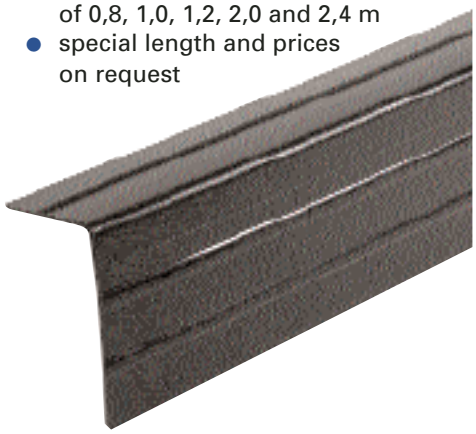
- pressure distribution on a large surface
- optimal in case of the transport of hardboards
- for belt width of 50 mm

article No.	article	price per pce EUR
0600 0024	edge protection corner, 50 mm	3,35

edge protection corner

edge protection corner of L-profile for pallets

- dimensions leg-length 180 x 140 mm
- 5 mm material thickness with protective shoulders, weight 1,7 kg/m
- of extruded polyethylene
- high form flexibility
- available in length of 0,8, 1,0, 1,2, 2,0 and 2,4 m
- special length and prices on request



Abraison protecti-on
Edge protection

DoZurr

Edge protection for 25, 35, 50 and 75 mm of webbing width.

Your advantages:

- better force distribution in the lashing belt
- longer durability of lashing belts
- handy and load protecting

The Dolex edge slides not only protect the belts against damages, additionally they care for the equal distribution of tension on both sides of load.

DoLex – edge protection pads may also be applied as ratchet pads for sensitive surfaces

DoLex edge protection pads

article No.	for webbing width mm	price per piece EUR
0600 0025	25	3,50
0600 0019	35	4,00
0600 0018	50	4,65
4512 0090	75	7,85

DoLex edge slides Standard length: 0,5 m

article No.	for webbing width mm	price per piece EUR
5597 0025	25	27,15
5597 0035	35	28,45
5597 0050	50	35,95
5597 0075	75	45,45

PVC-ARS abrasion protection hose Standard length: 0,5 m

article No.	for webbing width mm	price per piece EUR
5500 0040	25	3,40
5500 0050	35	3,50
5500 0060	50	3,70
5500 0100	75	5,65

PU-ARS abrasion protection hose Standard length: 0,5 m

article No.	for webbing width mm	price per piece EUR
5500 2040	25	3,95
5500 2050	35	5,95
5500 2065	50	7,45
5500 2100	75	10,40

Anchor-tracks
Lashing belts
50 + 25 mm

Lashing belts for anchor tracks

LC direct pull	LC when hooping
750 daN	1500 daN

Design-variants

with ratchet

with tightening clamp

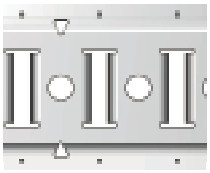
with belt clamp

with sliding-buckle

Highly expanded polyester webbing of minor elongation. Abrasion and rub resistant. Surface saving. On request equipped with your company imprint.

Lashing belt with universal anchor track-fitting 1826, 50 mm wide, for lashing-tracks – see next page

article No.	design	price per 3,50 m of length **EUR**	price per any add. meter **EUR**
2650 1512	with ratchet	26,90	1,00
2651 1512	with tightening clamp	28,70	1,00
2652 1512	with belt clamp	25,20	1,00
2653 1512	with sliding buckle	24,60	1,00

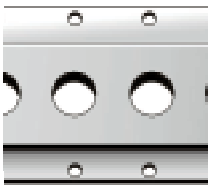


Universal anchor track-fitting, type 1826
Art. No.0615 1826

Price on request

Lashing belt with roundhole-anchor-track-fitting 1817, 50 mm wide, for lashing-tracks – see next page

article No.	design	price per 3,50 m of length **EUR**	price per any addmeter **EUR**
2650 1534	with ratchet	33,90	1,00
2651 1634	with tightening clamp	35,70	1,00
2652 1534	with belt clamp	32,20	1,00
2653 1534	with sliding buckle	31,60	1,00

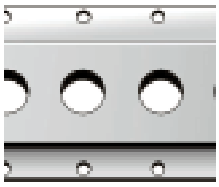


Anchor track-fitting with 25 mm round holes, type 1817
Art. No.0615 1817

Price on request

Lashing belt with roundhole-anchor-track-fitting , 50 mm wide, or lashing-tracks – see next page

article No.	design	price per 3,50 m of length **EUR**	price per any addmeter **EUR**
2650 1556	with ratchet	30,50	1,00
2651 1556	with tightening clamp	32,30	1,00
2652 1556	with belt clamp	28,80	1,00
2653 1556	with sliding buckle	28,20	1,00

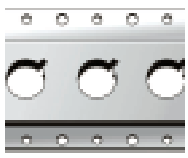


Universal anchor track-fitting with 20 mm round holes, type 1818
Art. No.0615 1818

Price on request

Lashing belt with anchor-track-fitting with , anchor-tracks – see next page

article No.	design	price per 3,50 m of length **EUR**	price per any addmeter **EUR**
2625 1178	with ratchet 25 mm	23,60	0,70
2625 5178	with tightening clamp 25 mm	21,80	0,70
2650 1678	with belt clamp 50 mm	24,60	1,00
2651 1678	with sliding buckle 50 mm	26,70	1,00



Anchor bar coating finish with a nib.

For a 25 mm width of belt
Art.No.0615 0012

For a 50 mm width of belt
Art. No.0615 1824

Price on request

Anchor bars

Anchor tracks, integrated slot and hole, hat profile

article No.	material	hole ø mm	width mm	depth mm	length mm	thicknress mm	weight kg	price EUR
1815 3007	galvanized steel	20	80	12	3200	3	5,7	24,85

Combined anchor tracks, integrated slot and hole, hat profile

article No.	material	hole ø mm	width mm	depth mm	length mm	thicknress mm	weight kg	price EUR
0615 3009	galvanized sendzimir steel	25	130	11,5	3005	2,5	7,0	26,05
0615 3008	aluminum, anodised	20	130	12	3000	3,0	2,8	52,45

- **narrow hole screen enables a protection close to the load**
- **high crosswise rigidity!**

Anchor tracks, alternation slot and hole. Slot with back bended rag.

article No.	material	hole ø mm	width mm	depth mm	length mm	thicknress mm	weight kg	price EUR
0615 3010	galvanized sendzimir steel	20	130	11,5	3005	2,5	7,0	26,05
0615 3011	galvanized steel	20	130	12	3005	3,0	8,7	33,05

- **narrow hole screen enables a protection close to the load**
- **high crosswise rigidity!**

Round hole anchor track with hat-profile

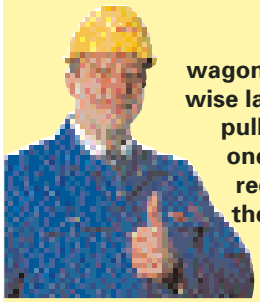
article No.	material	hole ø mm	width mm	depth mm	length mm	thicknress mm	weight kg	price EUR
0615 3012	galvanized steel	20	80	12	3000	2,0	5,4	22,10
0615 3013	galvanized sendzimir steel	20	80	11	3000	2,0	3,3	16,80
0615 3014	galvanized sendzimir steel	25	80	11	3000	2,0	3,3	16,80

Round hole anchor track, with hat-profile for anchor track fitting with nib

article No.	material	hole ø mm	width mm	depth mm	length mm	thicknress mm	weight kg	price EUR
0615 1806	galvanized steel	22	80	12	3000	3	5,7	23,60

Slot sizes of lashing tracks are standardised: The anchor tracks fitting 1826 fits universally.

Cargo-plants



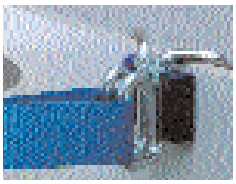
Attention! In a wagon body the cross wise lashing belts may pull the side boards one to another. We recommend either the telescopic bars or clamp bars!

Partition interlocking, with telescopic aluminum-plates, operating range 2,40 – 2,70 m

article No. 0616 2642	price	**EUR**	120,60
Design as above however, aluminum-body, blue anodized			
article No. 0616 2641	price	**EUR**	135,60

Tex-Grip side board lashing belt, 50 mm, 3,5 m long

article No. 2650 0212 price **EUR** 26,10



- Reliable lashing of smaller loads at side board, suitable particularly for trucks with open load carrying bodies
- No lashing catches nor lashing tracks necessary, application at any place
- Easy handling makes fast lashing possible: end fixture secures automatically when locking
- No damage to side board caused by rubber coated end fixtures
- Loading capacity of 200 daN under hooping

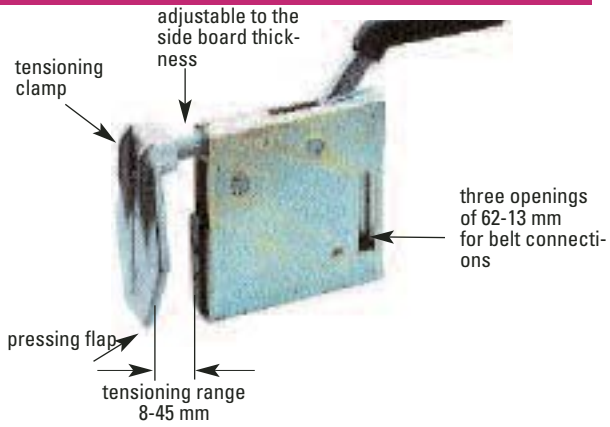
Telescopic shoring poles for roundhole anchor tracks and universal anchor tracks type 1826, galvanized steel

article No. 24 mm pins	article No 19 mm pins	truck inner measures mm	price per piece **EUR**
0617 2412	0617 1912	2000 - 2080	42,85
0617 2413	0617 1913	2100 - 2180	43,85
0617 2414	0617 1914	2200 - 2280	44,85
0617 2415	0617 1915	2300 - 2380	45,85
0617 2416	0617 1916	2440 - 2520	46,85
0617 2417	0617 1917	2400 - 2480	47,85
0617 2418	0617 1918	2500 - 2580	48,85

Adjustable telescopic storing poles for round hole and universal anchor tracks, type 1826

article No. 24 mm pins	article No. 19 mm pins	truck inner measures mm	material	price per piece EUR
0617 2401	0617 2101	2190 - 2650	galvanized steel	49,85
0617 2402	0617 2001	2190 - 2650	aluminium	59,20

Side board anchor for aluminum profiles and lashing belts


adjustable to the side board thick-ness
tensioning clamp
three openings of 62-13 mm for belt connecti-ons
pressing flap
tensioning range 8-45 mm

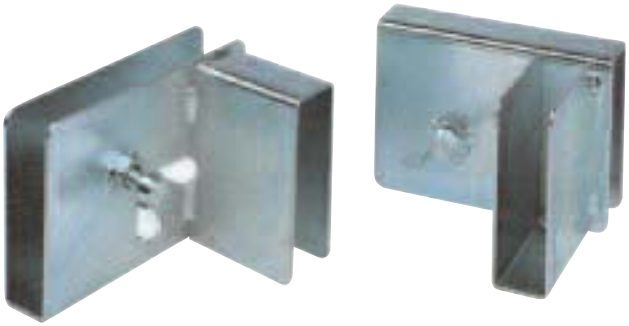
article No. 0616 2640 price **EUR** 54,45

Side board anchor with adjustable lashing belt with 2 locks, length 3,50 m, type 1826

article No. 2616 2644 price **EUR** 150,10

Plankap
Material: galvanized steel

article No. 0618 0011	left side	price	**EUR** 9,65
article No. 0618 0012	right side	price	**EUR** 9,65



aluminum loading bars

with steel endings on both sides for the combi-lashing bar.
Application: for inner truck dimensions of 2310 – 2530 mm

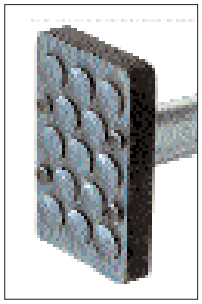
article No. 0618 0020 price **EUR** 78,45

Clamping bars
Airline anchor tracks

Aluminum clamping bar, both sides with rubber-base

article No.	diameter mm	range of adjustment mm	weight kg	price per piece EUR
0618 0008	42 mm	2100 - 2470	5,3	63,20
0618 0005	42 mm	2350 - 2720	5,5	68,70
0618 0006	38 mm	2260 - 2630	4,6	51,10

- Pipes of high quality aluminium
- Instead of bases further endfittings are available, e.g. bolts for 20 or 25 mm anchor tracks
- Nets or frames can be combined well with these clamping-bars



Clamping bar-2,0 – 2,7m effective length

- Pipe of high quality steel
- Plastic elements reinforced by glass fiber
- Fast, stepless shift
- Both pressing elements are flexible, therefore a skew position of up to 15° in any direction is possible
- Save releasing of expansion-mechanism, the bolt-lever do not return
- The telescope remain in adjusted position
- Crepe-rubber-discs (pressure disc with extra high adhesion factor keeps the bars closed to the load)
- Instead of base further endfittings are available, e.g. bolts for 20 or 25 mm anchor hacks
- Nets or frames can be combined well with these clamping bars

article No. 0616 2645 price **EUR** 100,50

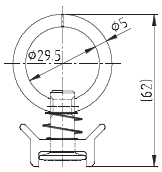
Anchor track lashing belts, Airline, webbing width of 25 to 50 mm with belt clamp (25 mm) or ratchet (25, 35 and 50 mm)

with ratchet

with belt clamp

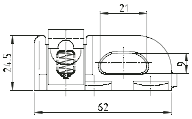
Lashing belt 25 mm webbing width, with single stud-fitting, 200 daN direct pull, 400 daN hooping

article No.	execution	price 3,50 m EUR	per any add. meter EUR
2625 0521	belt clamp	18,90	0,60
2625 1112	ratchet	21,30	0,60



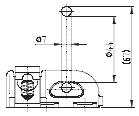
Lashing belt 35 mm webbing width, with double stud-fitting, 500 daN direct pull, 1000 daN hooping

Artikel-Nr.	execution	price per 3,50 m EUR	per any add. meter EUR
2635 2112	Ratsche	29,70	1,00

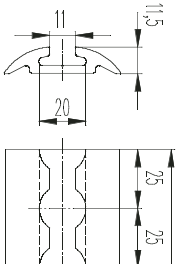


Lashing belt 50 mm webbing width, with double stud-fitting, 500 daN direct pull, 1000 daN hooping

article No.	execution	price 3,50 m EUR	per any add. meter EUR
2650 2112	ratchet	36,40	1,00

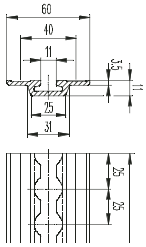


Airline track, type 71224, 3 m long



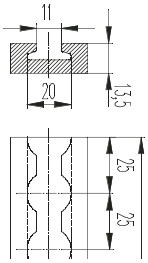
article No.	price per piece EUR
0615 7123	51,15

Airline track, type 71207, 3 m long



article No.	price per piece EUR
0615 7121	64,50

Airline tack, type 71226, 3 m long



article No.	price per piece EUR
0615 7122	57,65

Load protection DB Cargo

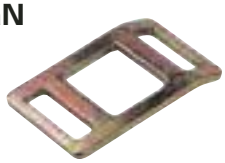
DoZurr

Types of buckles

500 daN

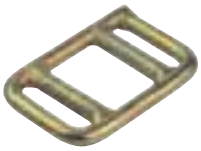
700+ 1000 daN

1400 daN



2000 daN

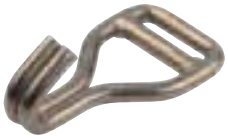
3000 + 4000 daN



Additional connecting elements

Sling buckle

Hook buckle



Load protection belt

article No.	strength according to DB	width of belt	VE	price per 100 m **EUR**
5519 8125	500 daN	25 mm	500 m	15,90
5519 8135	700 daN	32 mm	400 m	18,40
5519 8335	1000 daN	35 mm	250 m	30,95
5519 8435	1400 daN	35 mm	250 m	34,45
5546 0392	2000 daN	35 mm	300 m	37,90
5536 0552	3000 daN	50 mm	250 m	42,90
5519 0582	4000 daN	50 mm	300 m	50,70

Buckles for the load protection belt

article No.	strength according to DB	width of belt	VE	price per 100 m **EUR**
0619 8205	500 daN	25 mm	400 pieces	13,40
0619 8209	700 daN	32 mm	125 pieces	20,70
0619 8209	1000 daN	35 mm	125 pieces	20,70
0619 3516	1400 daN	35 mm	100 pieces	91,50
0640 5005	2000 daN	35 mm	100 pieces	145,50
0640 5001	3000 daN	50 mm	100 pieces	175,00
0640 5001	4000 daN	50 mm	100 pieces	175,00

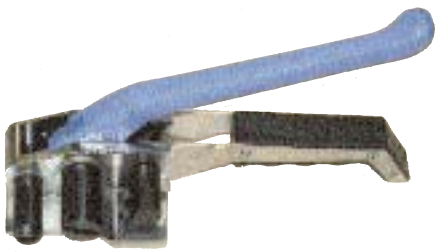
Additional connecting elements

article No.	description	strength daN	width of belt mm	VE pieces	price **EUR**
0640 5002	Schlaufenschnalle	4000 daN	50	100	152,00
0640 5003	Hakenschnalle	4000 daN	50	100	182,00

DD / DB 4000 daN

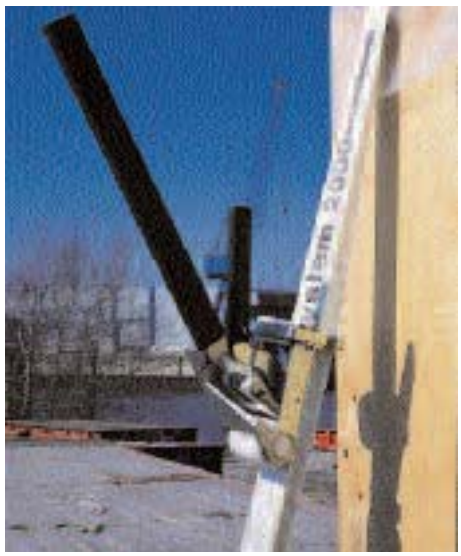
Belt tensioner up to 50 mm with cutting off device

article No.	price per piece **EUR**
0619 9006	590,00



Belt tensioner up to 50 mm for tightening forces up to ca 500daN

article No.	price per piece **EUR**
0619 5099	598,20



Freight cushions

Freight cushions are guaranteeing safe transport and unloading of your cargo.

Inflatable freight cushions are applicable many-sided in regard to the loading-process.

Due to freight cushions the transport-risks for loads and means of transport are minimized.
Suitable for loading containers for transport by ship, truck railway.

The standard type of a 2-layer freight cushion consists of a top-layer made of polypropylene tape-fabric and the inner layer is made of LDPE hose-foil (air chamber).

For **one-way application** the cushion is furnished with a flexible hose-valve.

For **multiple application** a screw-on valve is available.

Almost every desired size with needed load-capacity is available.
Please request!

Your advantages:

- Free spaces are filled in easily
- Holohedral product-safety. Slipping of pallets is excluded.
- Fast and simple handling – saving time.
- Replacing wooden frameworks. Old pallets and disuse packing-material which have been used as load-safety.
- Easy disposal of freight cushions.

3-D version for free-spaces up to 70 cm on request.

Special designs

Individuel requests of customer are feasible e.g. eyes or adhesive surfaces for fixing the cushion to product-packages.

Freight cushions

article No.	dimensions mm	package unit pieces/ pallet	price per piece EUR
0609 1205	750 x 1000	500	9,90
0609 1206	1000 x 1000	400	10,90
0609 1207	1000 x 1200	350	11,50
0609 1208	1000 x 1800	300	13,75
0609 1209	1000 x 2000	250	14,50
0609 1211	1200 x 1800	200	16,40
0609 1210	1200 x 1200	350	12,75
0609 1202	1200 x 2400	160	18,50
0609 1212	1500 x 2400	150	19,40
0609 1213	1800 x 2400	140	26,00
0609 1214	2000 x 2000	140	24,90
0609 1215	2000 x 2400	130	27,75

Freight cushions inflating air gun

article No.	price per piece EUR
0691 9999	71,25

Woven bundle belt with tension-clamp

DeZurik

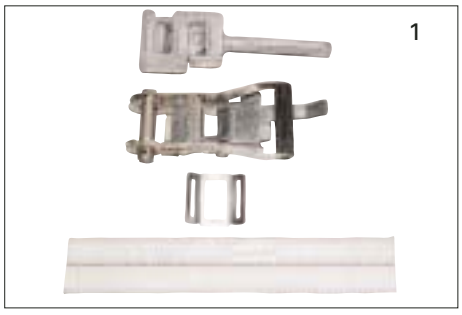
Bundle belt, 50 mm wide, 2500 daN system strength

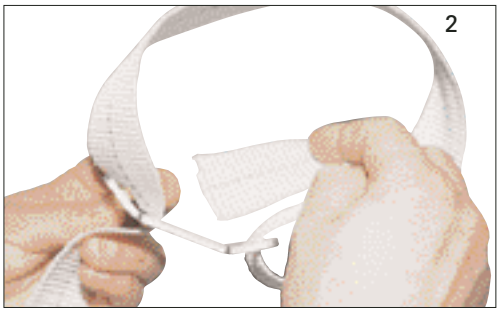
This woven belt has an extremely high tensile and breaking strength. The system consists of webbing, tighten-clamp and webbing-tension-jack resp. ratchet.

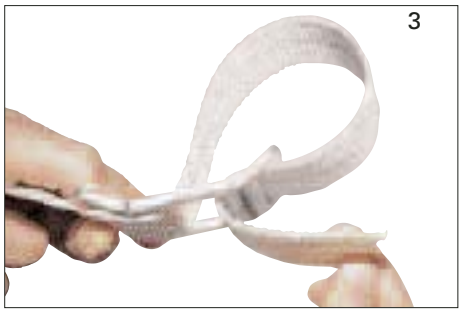
Easy application!

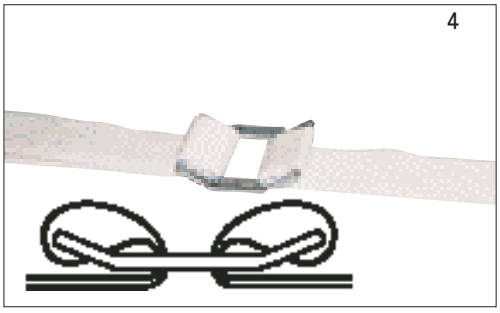
article No.	article	price per VE EUR
0619 1600	belt strip UD 50 2000 daN	79,45

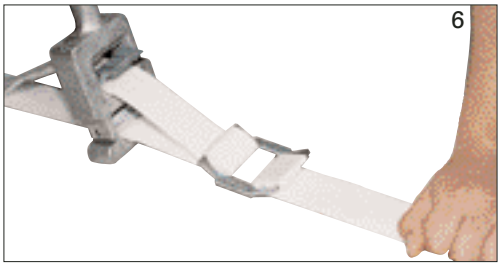
article No.	article	price per VE EUR
0619 5016	webbing-clamp	1,75
0619 5000	webbing tension-jack	82,60
0650 2003	ratchet	89,7a0











And so it is done

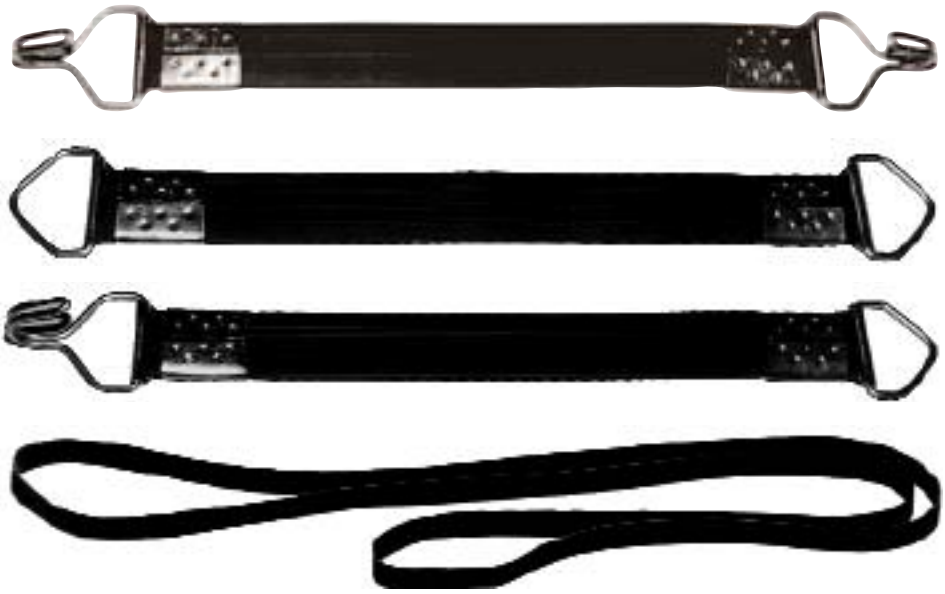
- Bundle belt is to be threaded into the belt buckle (pict.2 & 3) and to be fastened by hand (pict.4).
- The bundle belt is to be lashed fast with the tension-jack (pict.5) or the ratchet (pict.6).

Shape joint lashing belts

Expander / rubber ropes

Mould-tensioning belts

article No.	type	price per 1 m **EUR**	price per any add. meter **EUR**
3635 0012	2 hooks	10,75	4,90
3635 0056	2 eyes	10,75	4,90
3635 0016	hook and eyes	10,75	4,90
3635 0000	endless	On request!	



Mould-tensioning belts for self installation

article No.	article	**EUR** piece
0635 0006	hooks	0,95
0635 0022	eyes	0,95
		price per 100 m **EUR**
5500 3501	tensioning belt 35 mm	483,60

Self installation – so it is to be done

- rubber-profile-belt is to be cut to the desired length.
- the rubber belt is to be threaded into the required hook or eye and fixed by means of bending the toothed fastening elements.
- sharp teeth go deep into the rubber and secure a reliable hold.

Expander / rubber ropes for inferior demands, extensibility of ca. 100%

Expander ropes for a fast and reliable lashing. The core is of best latex and it is braided with extremely strong, abrasion resistant UV-resistant polyester. Extensibility of ca .100%, for inferior demands only.

Available for self-installation or complete assembled.

Expander / rubber ropes with wire hook, complete assembled, delivery in the length of 0,5, 1,0 and 2,0 m

rope diameter in mm	**rope 0,5 m long** with 2 hooks article No.	price per piece unit of 10 pieces **EUR**	**rope 1,0 m long** with 2 hooks article No.	price per piece unit of 10 pieces **EUR**	**rope 2,0 m long** with 2 hooks article No.	price per piece **EUR**
6	0699 9980	2,25	0699 9981	2,60	0699 9982	3,40
8	0699 9974	2,55	0699 9975	2,95	0699 9976	3,85
10	0699 9977	3,00	0699 9978	3,45	0699 9979	4,60

Expander / rubber ropes for self installation

rope diameter in mm	**rubber rope** unit of 100 m, loose article No.	price per 100 m unit of 100 pieces **EUR**	**wire hook with black plastic-coat** article No.	price per piece unit of 10 pieces **EUR**
6	0799 9906	51,00	0699 9976	0,61
8	0799 9908	98,00	0699 9978	0,79
10	0799 9910	124,00	0699 9980	1,03

Packaging and strapping technics

DoPack

PP-adhesive tape 30 µ, width of roll 50 mm, length of roll 66 m

article No.	color	package unit	price per package unit EUR
0618 0100	transparent	72 rolls	58,40
0618 0101	white	72 rolls	58,40
0618 0102	brown	72 rolls	58,40

Big rolls, brown

article No.	length m	package unit	price per package unit EUR
0618 0109	330	12 rolls	on inquiry
0618 0104	660	6 rolls	on inquiry

Strings, ropes and threads on request!

A dhesive tape rolls with core brake

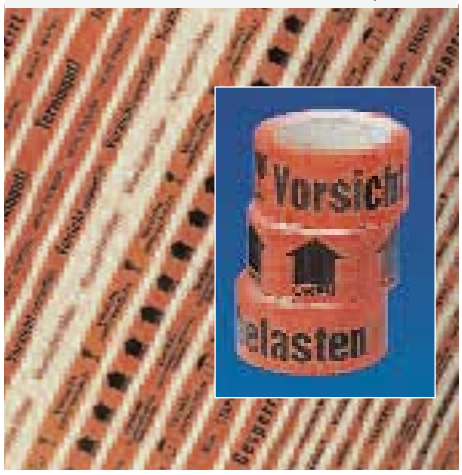
article No.	price per piece EUR
0618 0103	9,85

Plastic edge protection corners 42 mm wide, length of blades 40 x 40 mm for fixing a tape of up to 23 mm width

article No.	type	color	pieces per package unit	price per 1.000 pieces EUR
0619 0026	without fixing pin	black	2000	28,30
0619 0027	with fixing pin	black	2000	28,30
0619 0025	without fixing pin	white	2000	28,30
0619 0024	with fixing pin	white	2000	28,30

PP warning tapes 30 µ, with black text on orange-red tape, width of roll 50 mm

article No.	printed text	package unit	price per 1000 pieces EUR
0618 0105	Attention fragile!	36 rolls	118,55
0618 0106	Attention glass!	36 rolls	118,55
0618 0107	Do not east!	36 rolls	118,55



PVC tapes with company imprint on request

- as advertising medium, information medium or quality stamp
- strong adhesive
- extremely tenacious
- equally unreeling
- width of roll – 50 mm, length of roll 66 m, 35 µ rubber adhesive

Packaging and taping technique

DoPack

Carton closing machine, model S 2

Automatic closing machine with manual adjustment for cartons of same size

- carton dimensions minimum (l x w x h) 150 x 140 x 110 mm
- carton dimensions maximum (l x w x h) ∞ x 500 x 500 mm
- adhesive tape width K11 (50 mm)
- roll diameter max. 410 mm
- roll carrier for 2000 mm adhesive tape rolls
- upper and lower drive
- adjustable centring device
- side pressing unit
- according to CE 392

article No.	article	price per piece EUR
0619 0301	carton closing machine	2.970,00

Filling material shredder

Produces packing cushions and filling material of old cartons !

- padding mats, raster: 4 x 110 mm
- carton cutting capability: 2-3 layers
- input width into the cutting gear: 425 mm
- input height into the cutting gear: 20 mm
- stub pipe connection for vacuum cleaner: 50 mm
- speed of cutting: 0,18 m/second
- cutting output: 5 – 7m^3/hour
- junction: 400 Volt, 3,9 kW
- dimensions: w/d/h: 620x500x2020 mm
- weight: 205 kg

article No.	article	price per piece EUR
0619 0302	Shredder of filling material	3.580,00

Stretching foil

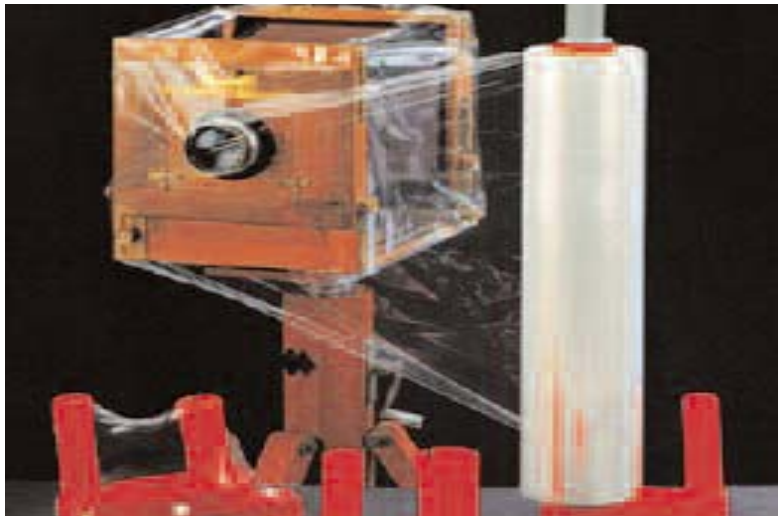
- easy protection of pallets
- optimum protection against dust and humidity
- environmentally friendly, as manufactured of recyclable polyethylene foil

article No.	color	foil strength µ	roll width mm	roll length m	package unit	price/roll EUR
0621 5020	transparent	20	500	300	6 rolls	11,80
0621 5030	transparent	23	500	300	6 rolls	14,15
0621 5031	black	23	500	260	6 rolls	18,05

Hand stretcher

- for foil width of 500 mm
- for roll length of 500 m
- with immobilizing brake
- easy replacement of loil
- for reeling of all available foils

article No.	price EUR
0618 0116	32,65



Strapping shrinking wrapping

DoPack

Semiautomatic strapping machine

- compact construction
- for tape width of 5 till 12 mm
- 4 times braking of wheels
- easy exchange of tape width
- core of 200 mm
- delivery in closed or open construction design

article No.	article	price per piece EUR
0619 0303	semiautomatic strapping machine	1.610,00

Semiautomatic strapping machine

- with electronic adjusted tape strain from 8 to 45 kg
- compact construction
- for tape width of 5 to 13 mm
- weight 76 kg
- table height 780 – 950 mm
- 4 times braking of wheels
- easy exchange of tape width
- core of 200 mm
- delivery possible in closed or open construction version

article No.	article	price per piece EUR
0619 0304	semiautomatic strapping machine	2401,00

PP – plastic tapes for taping

For machine or manual processing.

Polypropylene tape, black color.
Different colors on request.

Further measurements, roll length, rewinders and buckles on request.

article No.	tape width x thickness mm	roll width mm	core Ø	roll length m	tenacity daN	price per 1.000 m 1 pack. unit* EUR	3pack. units* EUR	5pack. units* EUR
0619 8530	8 x 0,55	185	200	4.000	90	7,85	7,30	6,65
0619 8531	9 x 0,55	185	280	3.000	105	8,75	8,05	7,60
0619 8532	9 x 0,63	185	200	3.500	110	9,85	9,05	8,40
0619 8533	12 x 0,50	185	200	3.000	130	10,55	9,70	8,95
0619 8534	12 x 0,55	185	280	2.500	130	10,55	9,55	8,75
0619 8535	12 x 0,55	150	406	3.000	130	10,55	9,55	8,75
0619 8536	12 x 0,63	185	200	3.000	150	11,25	10,40	9,55
0619 8537	12 x 0,63	185	280	2.100	150	11,25	10,40	9,55
0619 8538	12 x 0,63	150	406	3.000	150	11,25	10,40	9,55
0619 8539	15,5 x 0,73	150	406	2.000	260	20,50	18,90	17,40
0619 8540	15,5 x 0,90	150	406	2.000	260	22,95	21,15	19,50

*package unit (VE) = 3 rolls

Electronic vibration welding machine for 9 up to 16 mm tape width

article No.	article EUR	price per piece
0618 01	electronic vibration welding machine	on request

Stepless adjusting of tape straining

Taping shrinking wrapping

DoPack

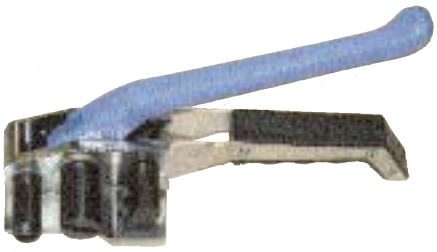
PES tapes for taping

Our bunch-tape proves oneself day-to-day in several ways of covering. The bunch-tapes offer tensile strength of 300-2000 daN (6 x lighter than steel-tape), reasonable one-way-safety. Made of high-tensile polyester yarn.
The tape-stretcher, the handy portable unwinder and the reasonable buckles are forming an easy tape-combination, even available with imprint or special impregnated, e.g. flame-resistant or antistatic.

heavy duty tape article No.	tape width mm	tenacity daN	meter per roll	package unit	price per roll **EUR**	buckles article No.	package unit	price per 100 pieces **EUR**
0619 8111	10	280	1500	2	87,70	0619 8201	1000	3,15
0619 8113	13	380	1100	2	81,35	0619 8201	1000	3,15
0619 8172	16	450	1000	2	92,60	0619 8202	1000	3,30
0619 8121	13	500	700	2	78,35	0619 8201	1000	3,15
0619 8222	16	600	600	2	84,00	0619 8202	1000	3,30
0619 8123	19	700	500	2	78,75	0619 8203	1000	4,35
0619 8174	25	900	500	2	99,70	0619 8205	400	13,40
0619 8178	30	1200	150	9	36,75	0619 8209	250	20,75

Stretching / scrolling appliances

article No.	article	price per piece **EUR**
0619 9002	Tape stretcher up to 19 mm	162,75
0619 9003	Tape stretcher up to 25 mm	303,05
0619 9004	Tape stretcher up to 40 mm	502,55
0619 9010	Scrolling device with collecting box	64,55
0619 9011	Scrolling device with collecting box, portable	123,35
0619 9012	Shifting slat for pallets	11,75



Dome-shrinking machine

article No.	article	price per piece **EUR**
0619 0305	Cap shrinking machine	3.024,00

For shrinking and welding in one technological process

- welding cover of adjustable height
- adjustable welding time and temperature of shrinkage
- start-up delay
- control desk with three memory recording possibilities
- applicable with PVC

Technical data and dimensions:

Current: 230 V 1ph 50Hz, 3,0 kW
Medium output: 2-300 pieces per hour
Frame: 500 x 400 mm
Product height: max. 180 mm
Weight: 105 kg

Taping shrinking wrapping

DoPack

Horizontal wrapping machine

An ideal machine for wrapping pipes, bars, slats, profiles and other long goods with stretch foil or crêpe paper.

Long goods are wrapped by this machine during the transport.

- max. diameter (round) 470 mm
- max. dimensions (quadratic) 340 x 340 mm
- diagonal 470 mm
- ength – unlimited

Technical data and dimensions:

Current supply: 240 V 1 Ph.
Dimensions: 795 x 825 x 1500 mm
Working height: 780 – 900 mm

article No.	article	price per piece EUR
0619 0306	horizontal wrapping machine	6.608,00

Semiautomatic stretch system DoWS 212 i

With considerable standard-equipment!

Technical data:

- working voltage: 400 V, 16 Ah
- max. weight of pallets: 1200 kg, but also available with max. weight of pallet 2000 kg
- max. height of pallets: 2100 mm
- tower height: 2620 mm
- dimensions of pallets: 800 x 1200 mm, but also available for 1200 x 1200 mm
- adjustable speed of rotation: 5 up to 12 rpm
- diameter of turning-knob: 1500 mm, but also of 1800 mm available against surcharge
- weight: 700 kg

Outfit:

- 4 wrapping programs
- magnetic field brake, electrically controlled
- photocell
- fix-stop
- magnetic field brake for preliminary extension up to 80%
- soft start and soft run-out
- electronic rotational speed control of turning-knob

article No.	accessories/ options	price EUR
0619 0307	DoWS 212 i	6.295,00
0619 0308	Start-up ramp	310,00
0619 0309	Power stretch unit	on request
0619 0310	Pneumatic pressing unit	on request

Semiautomatic stretching system DoHSD 312 i

Outfit:

- 4 wrapping programs
- manual control
- wrapping up and down
- double wrapping with dwell-time to put on the upper pallet cover
- single wrapping (upward only)
- selection of upper and lower wrap number
- fix-stop
- adjustable foot and head wraps
- magnetic field brake, for preliminary extension up to 80%
- soft start
- electronic rotational speed control of turning-knob
- rotating disc stop in exact position
- height of the turning-knob 75 mm
- photocell for automatic height identification of the pallet
- max. height of foil-reel: 500 mm
- max. diameter of foil-reel: 300 mm
- max. height of pallet 2100 mm

article No.	accessories/ options	Preis **EUR**
0619 0311	DoHSD 312 i	8.856,00
0619 0312	pneumatic pressing unit	1.520,00
0619 0313	tower heightening up to 3000 mm	664,00

Semiautomatic stretching system – extremely reasonable

- 1 wrapping program
- manual control
- photocell
- fix-stop
- adjustable foot and head wraps
- adjustable spring brake
- soft start and soft run-out
- electronic rotational speed control of turning-knob
- transport appliance for fork lift
- easy installation

Technical data and dimensions:

- working voltage: 400 V, 3 Ah
- max. weight of pallets: 1200 kg,,
- dimensions of pallets: 800 x 1200 mm
- adjustable rational speed: 5 up to 12 rpm
- turning-knob diameter: 1500 mm or 1650 mm
- weight: 380 kg

article No.	accessories/ options	price **EUR**
0619 0314	DoWS 150-A	4.180,00
0619 0315	approach bank:	310,00
0619 0316	1 phase 240 Volt	160,00
0619 0317	rotating disc 1650 mm ø	170,00
0619 0318	special photocell for dark background	180,00

Container BigBags

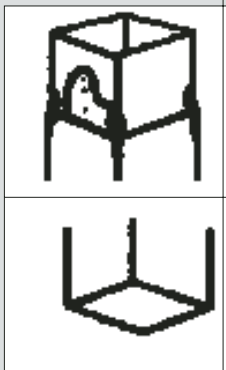
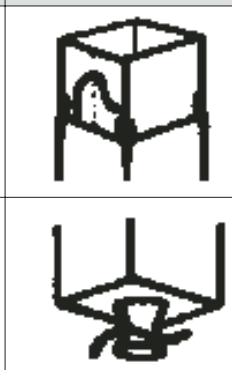
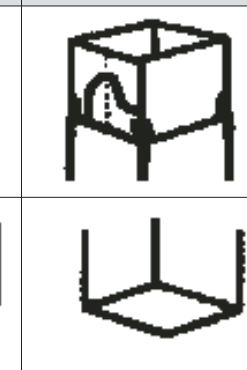
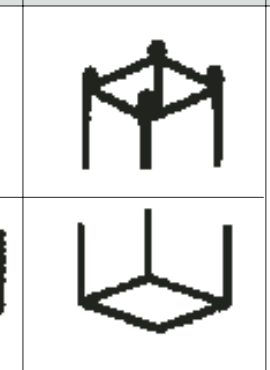
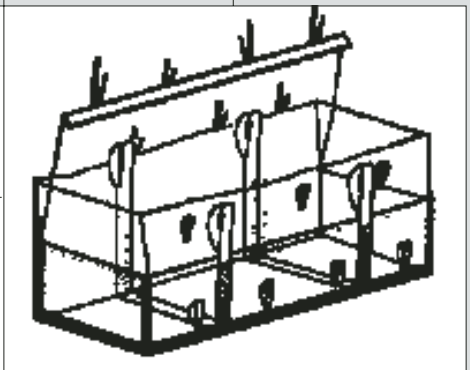
BigBags

Container BigBags are most suitable for transport and economic storage of all kind of bulk-goods, like e.g. gravel, sand, excavation, cerials and all other granulated or pulverized materials. BigBags are made of weatherproof, tearproof, dimensionally- and UV-stable plastic-fibers.

Your advantages

- Rational storage (stacking containers on top of each other)
- Safe and stable despite their own low-weight of max. 35 m/piece
- Advertising by imprints
- The BigBag bottom is identic to an Europallet
- Manual, semi-or fully automated filling
- Reasonable, light and reliable.
- For disposal of asbestos please request.

Transport solution at low cost, practical, flexible, suitable for stowage

Model A with a filling apron, 4 crane straps, coated, dimensions: 90x90x120 cm lifting capacity of 1000 kg safety factor 5:1	**Model B** with a filling apron, 4 crane straps, coated, dimensions: 90x90x120 cm lifting capacity of 1000 kg safety factor 5:1	**Model C** for disposal purposes with a filling apron, 4 crane straps, uncoated with PE inner-sack, dimensions: 90x90x120 cm lifting capacity of 1000 kg safety factor 5:1	**Model D** Open top 4 crane straps, uncoated, dimensions: 90x90x120 cm lifting capacity of 1000 kg safety factor 5:1	**Model E** Disposal bag for cement-asbestos-plates with 4 straps, aditionally 4 auxiliary straps at bag-buttom, apron and closed bottom, lifting capacity 1000 kg, safety factor 5:1	
				dimensions 260 x 125 x 30 cm	dimensions 320 x 125 x 30 cm
article No. 0601 0203	article No. 00601 0202	article No. 0601 0204	article No. 0601 0205	article No. 0601 0206	article No. 0601 0207
					
with closed bottom	outlet with packing cord	with closed bottom	with closed bottom	with closed bottom	with closed bottom

at delivery of pieces	EUR	price per piece EUR	EUR	EUR	EUR	EUR
10	9,85	14,00	10,30	8,80	on request!	on request!
25	9,30	13,25	9,70	8,25	on request!	on request!
50	8,40	12,00	8,80	7,50	on request!	on request!
100	8,10	11,60	8,50	7,25	on request!	on request!

Personal protection equipment

Nets

- Absorbtion belts
- Fall dampers
- Altitude protective equipment
- Reshaint systems
- Sling swivel
- Container covering nets
- Container canvas covers
- Absorbtion nets
- Side protecting nets
- Pallet rack protective nets

Personal protective equipment Information on utilization

DaSis

As a matter of principle, please take into consideration

Starting with a working height of 1 m the use of personal protective equipment is required: in case of industrial work starting with 1 m height, in handcraft starting with 2 m height and in case of roofer work starting with 3 m height.
Please bear in mind the regulations regarding your area of operation (BGR 198).

Selection

Which personal protective equipment (PPE) is adequate ? Prior to making the selection, the following points will decide on your position as user:

- PPE is to protect you against hazards but it itself can not create any hazard to you
- PPE must suite the specific requirements at site of work
- Any person who needs a safety belt must obligatory use its own safety belt.

Labels with the names of user may be supplied on request!

Adequate condition

All construction elements should have the following markings:

- Name, logo or some other symbol of manufacturer resp. supplier
- Production year
- Type identification
- Serial or production number
- CE marks

Inspection

- Prior to the use, the reliable condition of the PPE is to be checked by means of a visual examination.
- The PPE, as well as durable leads (e.g. rails, ropes) of protective climbing equipment should be checked, depending of needs, but at least once a year by an expert.
- Damaged parts of PPE are to be replaced by genuine manufacturer's spare parts without any delay.

Application

Appropriate use:

- The only appropriation of the PPE is protection of persons.
- Any changes to the PPE are forbidden.
- Unintentional opening must be excluded by means of protections (e.g. blind nuts of clip hooks, control mechanisms).

Storage

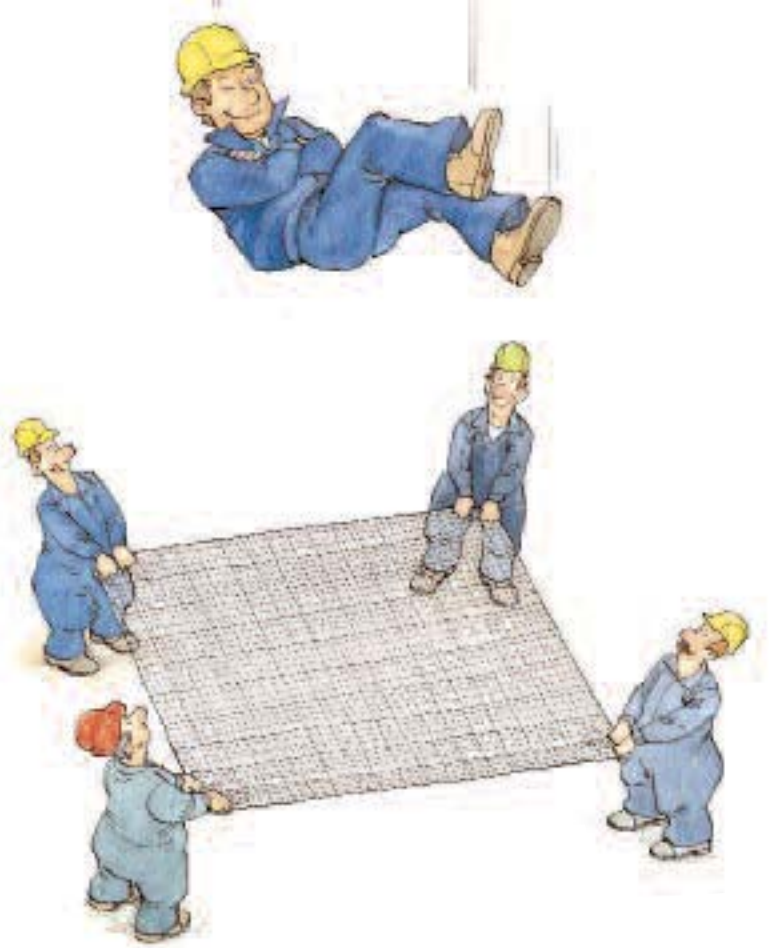
- The adequate storage of PPE is: clean, dry, not in direct proximity to heat sources, protected against sun light (UV radiation)

Cleaning

- Acids, lyes and other similarly aggressive cleansers are inappropriate. Clean water only should be used.

Repeated application after extraordinary events

- PPE damaged or subjected to a fall may be used again only after their examination by an expert.



Information on utilization

Nets

During construction or assembly work

on high altitudes, as means of interception of falling down persons are applied nets. They are used both for civil and industrial building and for bridge construction for avoiding accidents and for decreasing accident consequences. So, e.g. also over waters where, after a fall, there is a danger of drowning.
Nets should be handled and stored with care and prior to their repeated use they should be checked resp. disposed of. When the use of a net is envisaged during a period longer than 12 month from its production, the manufacturer should for every following year attach to the net fabric a not tightened, but in a way preventing its loss, control rope to give the user the possibility of checking. The EU instructions referring to personal protective equipment do not provide the duty of controlling protective nets. However general legal provisions regarding product responsibility and accuracy obligation are in force.

Stresses

Under rough construction site conditions, nets and the connected supporting constructions, i.a. the edge rope which carries the net, are subjects to mechanical wear. Also events of intercepting persons resp. objects, in accordance with the net's appropriation take place. Even when such stresses are below the measuring magnitude, they may result in deformations and fiber breaks and in a decrease of the net's original absorbing capacity. Apart from mechanical stresses, for a net subjected to weather conditions also photo-chemical influences have a destabilizing effect on the fiber. Factors favourable for the "natural wear" are: sun light radiation strength and duration, temperature and humidity, as well as air pollution by industrial gases.

Requirements

There is a general requirement with respect to protective nets which are applied at construction sites, that they must be fit for use for at least 12 months, which means that they must be able to safely intercept persons falling down within the range of net from an altitude of 6 m. For new nets this period starts with the date of production, for older ones – with the date of the last inspection. The production date should appear in form of the manufacturer's marking (data plate), while the date of last inspection – on the control plate. The condition for this proof is an examination of a construction pattern carried out according to the relevant European standard, which is to be documented by the standard quoted on the data plate. This also offers the verification possibility for older nets when one or more control ropes are attached to the net fabric. In case one criterion is not met, the protective net must be withdrawn and disposed. When a new-like net will prove to have reserves in energetic absorption capacity, or the real time of application was less than a year and the storage in the meantime was adequate, a re-examination may be carried out successfully. Under advantageous storage conditions understood are: lack of daylight and an uniform warehouse climate with a temperature of ca. 20°C and a relative humidity of ca. 60%. The accurate storage includes protection against mechanical damages.

Inspections

Prior to renewed application, protective nets which already were in use have to be inspected by the user for technical safety failures. Such failures are e.g. breaks to external fibers of mesh or of edge ropes, breakaways of mesh fiber from the edge rope and plastic deformations of net fabric or of carrying elements. In case of doubts or in case of stresses to which a net was subjected following the interception of a falling person or of a heavy object, an expert should be called in. When more than 12 months pass from the date of production and a new control plate is missing at the net, one may verify with the help of a control rope the condi-tion of ageing. For this purpose a control rope is to be taken from the net fabric and delivered to a specialized institution qualified for this purpose or to the manufacturer. A verification with a positive result will be documented by the application of a new control plate. In case of a poor condition of net or when after 1 year no control rope will be available, the protective net must be disposed of. This refers also to the case when during the examination of the control rope, the minimum value mentioned on the manufacturer's data plate will not be achieved.

Absorbtion belts DIN EN 361

DoAGUflex

The DoAGUflex absorbtion belts

are furnished with the new DuraFlex® fiber. Thanks to this the belt is flexible and can adjust itself to any movement.

Advantages:

- High wearing comfort and freedom of movements, therefore willingly accepted by users
- Soft absorbtion in case of a fall
- Even when hanging in the belt for a longer time – no constriction on extremities

No painful constriction in crotch – this advantage is especially appreciated by male users.

All DoAGUflex belts are delivered with TEFLON treated belt strips.

NEW

- they extend their life
- reject dirt, water, oil, grease and concrete dust
- maintain their resistance properties also after frequent washing

DoAGUflex Standard

With an intercepting eye in the shoulder range

article No.	type	weight kg	price EUR
4774 7910	standard	1,2	55,73

DoAGUflex Compact

With an intercepting eye in the shoulder range, in the chest range with down rope eye

article No.	type	weight kg	price EUR
4774 7930	compact	1,3	70,15

DoAGUflex Universal

With an interception eye in the shoulder range, on both sides with carrier eyes. With numerous possibilities of adjusting and with a reinforced back part.

article No.	type	weight kg	price EUR
4774 7990	universal	1,8	95,18

DoEF 1+2 elastic fall dampers according to DIN EN 355

The connection between the sling swivel and the interception eye is always tight. In case of a fall, the special web structure cares for a soft fall. Execution with a clip hook and at choice – with hooks MS 51 (DoEF1) or MH 90 (DoEF2)

article No.	length kg	type	price EUR
4775 1015	1,5	DoEF 1	52,31
4775 1020	2,0	DoEF 1	53,89
4775 5015	1,5	DoEF 2	68,92
4775 5020	2,0	DoEF 2	70,50

Safety waist coats integrated with an interception belt acc.to DIN EN 361

DoAGUflex

Putting on the vest is fool-proof. Just like putting on a jacket, closing the leg belts – ready!

Light, reliable, elastic and easy to put on – this are the advantages of the new DoAGUflex safety waist-coats. Furnished with the proved excellent intercepting belt DoAGUflex-Compact, the safety waist-coats combines the highest wearing comfort with maximum freedom of movements Intercepting eyes in the shoulder and chest range secure different slinging possibilities at the front resp rear sling catch. Numerous possibilities of re-setting secure the optimum fitting. Light summer cloth or thick winter equipment, does not matter, the vest will get adjusted to the conditions.

Its advantages:

- unusual comfort and freedom of movements
- 100% of wearing quota
- easy to set and adjust belt strips
- soft interception in case of a fall

DoAGUflex – safety waist-coats with intercepting belt Maximum comfort in wearing meeting the highest expectations

Love for details...

Practical pockets offer place for everything , what is necessary, from gloves up to your mobile phone... With eyes on the side for hanging tool kits

...optimum fitting

Adjusting possibilities on the side, in the shoulder and chest range secure the optimum adjustment of vest

...perfect adjustment

with fast locks for easy putting on of intercepting belt

DoAGUflex - waist-coats

article No.	execution	price EUR
4774 7806	vest	226,00

No painful impressions in crotch – this advantage is especially appreciated by male users.

Dolezych complete set in a metal suitcase

Every time perfectly equipped!

The set consists of:

- the DoAGUflex universal intercepting belt
- belt sling DoBS, 1,5 m

optionally with:

Set 1: DoStop III – altitude safety fixture, 10 m
Set 2: DoMSK I, simultaneously moving intercepting device, rope of Ø 12 mm, 10 m long
Set 3: DoEF I elastic fall damper, 2 m long

article No.	type	price per piece EUR
4740 9931	Set 1 with DoStop III	484,70
4740 9953	Set 2 with DoMSK I	195,00
4740 9975	Set 3 with DoEF I	149,00

DoAGUflex – set with safety vest

With elastic fall damper DeEF II of DIN EN 355, 2 m long with clip hook / pipe-hook MH 90 in a plastic suitcase

article No.	execution	price per piece EUR
47409942	full set	259,00

Absorbtion belts DIN EN 361

DoAGU

Dolezych absorbtion belts of high quality belt strips embrace the body so, that a falling person will be safely intercepted. The accompanying force of falling will be intentionally transferred to the belt strips and the body is kept in an upright position. The selection of intercepting belts depends on their type and task and on the available slinging possibility.
Usually are used intercepting belts with the intercepting eye on the back. However, when the sling catch is placed directly in front of you or on your side, then you should use an intercepting belt with the intercepting eye in your chest range.

DoAGU Universal S (no picture)

For climbing with a protective eye in hip resp. belly range for slinging at an available climbing protective fixture

article No.	type	weight kg	price **EUR**
4774 7895	universal S	1,4	76,40

DoAGU Standard

Reasonably and compact belt without adjusting possibility for roofers, carpenters etc., intercepting eye in shoulder range

article No.	type	weight kg	price **EUR**
4774 7810	standard	1,1	45,60

DoAGU Universal

A standard belt with a variety of adjustment possibilities. For steel construction builders, sewer workers, roofers, carpenters etc.The intercepting eye in shoulder range plus two side lashing eyes

article No.	type	weight kg	price **EUR**
4774 7890	universal	1,5	52,90

DoAGU Compact

Preferred at works, where the work equipment is to be worn on the back, e.g. in case of cleaning of house fronts etc., with intercepting eye in shoulder range, in chest range with intercepting eye and a down rope eye.

article No.	type	weight kg	price **EUR**
4774 7830	compact	1,2	64,10

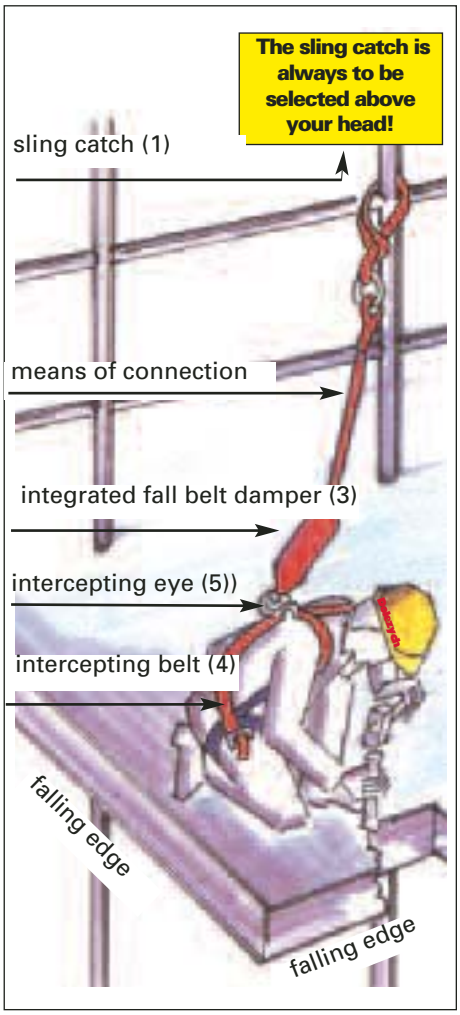
Please bear in mind that the connecting link with integrated fall damper is offering a working radius of max. 2 m!

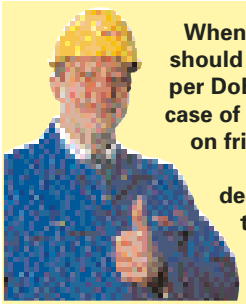
Connecting means DIN EN 354

Fall dampers DIN EN 355

DoViB, DoRFD DOBFD

Dolezych fall dampers reduce the falling-force in case of falling down to an acceptable level.
This happens either through friction in the cliphook of fall-damper **(DoRFD)** or through energy absorbing rupture of the protective cover and the extension of the fall-belt-damper **(DoBFD 1 or 2)**.


The sling catch is always to be selected above your head!
sling catch (1)
means of connection
integrated fall belt damper (3)
intercepting eye (5))
intercepting belt (4)
falling edge
falling edge



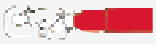
When wet and dirty, you should apply the fall damper DoBFD 1+2 because in case of fall dampers based on friction, the damping function may get decreased because of the polyamide rope swell.

Dolezych connecting means

(2) consist of a twisted rope of polyamide (S12 or S 16) or of a core-mantle rope (SK 12).They create a reliable connection between the absorbtion belt (4) and the sling swivel (1).They are applied as a shorter connecting element between the absorbtion eye (5) and the sling swivel. The integrated fall belt damper (3) reduces the forces of falling which are connected with the fall.

Connecting means with the integrated fall belt damper DoVIB

A complete system consists of: the connecting element (4 optional variants of execution) with a connecting element + fall belt damper DoVIB, with clip hook MS 51.

Choose your variant of execution	specification		article No.*	price EUR 1,5 m	price EUR 2,0 m
	Clip hook MS51(when to be hooked into the existing sling eye)	DoViB S12	4775 20..	43,00	43,80
		DoViB S16	4775 60..	50,90	52,00
		DoViB SK12	4772 20..	50,70	51,60
	Manual sling (when a hook becomes the sling catch)	DoViB S12	4775 21..	34,20	34,70
		DoViB S16	4775 61..	41,90	43,00
		DoViB SK12	4772 21..	41,70	42,60
	Pipe hook MH 90 (for slinging on scaffold pipes)	DoViB S12	4775 22..	62,10	62,70
		DoViB S16	4775 62..	69,80	70,90
		DoViB SK12	4772 22..	69,60	70,50
	Alu-clip hook DIN 5290 (for hooking into the existing sling eyes)	DoViB S12	4775 23..	43,20	43,80
		DoViB S16	4775 63..	50,90	52,00
		DoViB SK12	4772 23..	50,70	51,60

*..= Please complete the article number with the length:, e.g. DoViB with SK12 and the hook MS51, L = 1,5 m: 47722015! Standard lengths for DOVIB: 1,5; 2,0 m!

Fall friction damper DoRFD

With clip hook of the fall damper and the alu-clip hook, DIN 5290

Polyamide rope Ø 12 or 16 mm

specification	article No.	price EUR 1,5 m	price EUR 2,0 m
DoRFD S 12	4775 30..	43,00	43,80
DoRFD S 16	4775 40..	50,90	52,00

Fall belt damper DoBFD 1

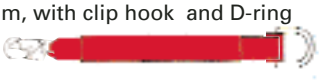
0,5 m, with clip hook MS 51 at both ends

Polyester rope 50 mm wide

specification	article No.	price EUR
DoBFD 1	4755 0105	40,40

Fall belt damper DoBFD 2

0,5 m, with clip hook and D-ring



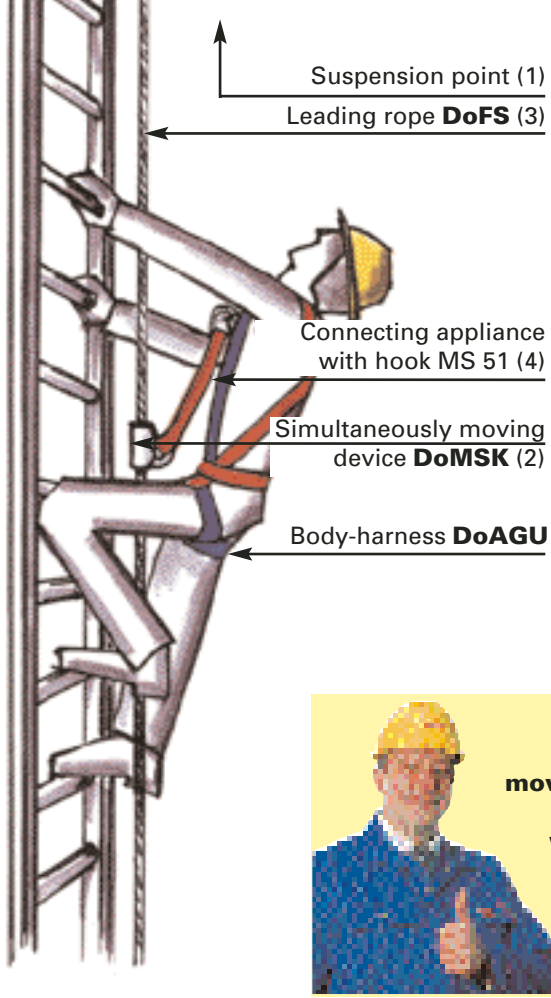
Polyester rope 50 mm wide

specification	article No.	price EUR
DoBFD 2	4755 0205	32,10

*..= Please complete the article number with the length:, e.g. DoRFD S 12, L = 1,5 m: 4775 3015! Standard lengths for DoRFD S 12: 1,5 - 2,0 m!

Guided type fall arrester on a flexible anchorage line DIN EN 353-2

DoMSK


Suspension point (1)
Leading rope **DoFS** (3)
Connecting appliance with hook MS 51 (4)
Simultaneously moving device **DoMSK** (2)
Body-harness **DoAGU**

The Dolezych rope shortener (2) is keeping a tight connection to the suspension-point (1) moving on a polyamid-safety-rope (3), S.12 or S.16 - they offer an utmost freedom of movements in all working positions.
Both **DoMSK I** and **DoMSK II** as well as **DoMSK III** - which is detachable from the guide-rope – are working with a special breaking system.
This system reduces the force of fall to a physical acceptable level.

Your advantages: You do not need any additional fall damper.

Simultaneously moving devices are ideal in case of work radius not exceeding 2 m

DoMSK I

article No.	type	rope diameter in mm	price 5 m **EUR**	price per any add. meter **EUR**
4753 1...	S 12	12	99,40	1,15
4753 7...	S 16	16	105,00	2,20

Equipment:
Leading-rope (3), one side with MS 51 hook to fasten on anchorage point, other side with final-stop. Automatically moving-on rope-shortener (2) made of powder coated stainless steel 0,5 m polyester rope as connecting medium (4).

Range of use:
DoMSK I is recommended for frequently changing working heights because the device is moving on automatically on leading.

DoMSK II

article No.	type	rope diameter in mm	price 5 m **EUR**	price per any add. meter **EUR**
4754 7...	S 14	14	105,60	1,90

Equipment:
Leading rope (3), one side with Screw-snap hook to fasten on anchorage point, other side with final-stop.
Manual adjustable rope-shortener – made of powder coated stainless steel – with fixing device. 0,6 m polyester rope as connection appliance (4).

Range of use:
DoMSK II is recommended particularly for constant workingheights. For changing positions the locking device is detachable manually.

Your order will be correct when:
... = you will complete the article number with the length,
e.g. DoMSK II, L = 15,0 m: 47547150.
The standard lengths for DoMSK I and DoMSK II are: 5; 10; 15 20 m!

Guidet type fall arrester on a flexible anchorage line DIN EN 353-2

DoMSK / DoFS

DoMSK III, rope shortener for leading ropes DoFS

article No.	specification	price per piece EUR
4759 1602	DoMSK III	147,70

Equipment:
Rope shortener (2) made of stainless steel, adjustable, optionally as automatically moving or manual clamping. Easy to remove from the rope, 0,5 m fall damper as connecting appliance (4).

Range of use:
DoMSK III is a multi-sided alternative. The device may be switched over from moving on to clamped. The leading rope is replaceable easily by the user. Please note: Only leading ropes approved for the system may be applied!

Leading ropes DoFS DIN EN 353-2 of polyamide, Ø 16 mm

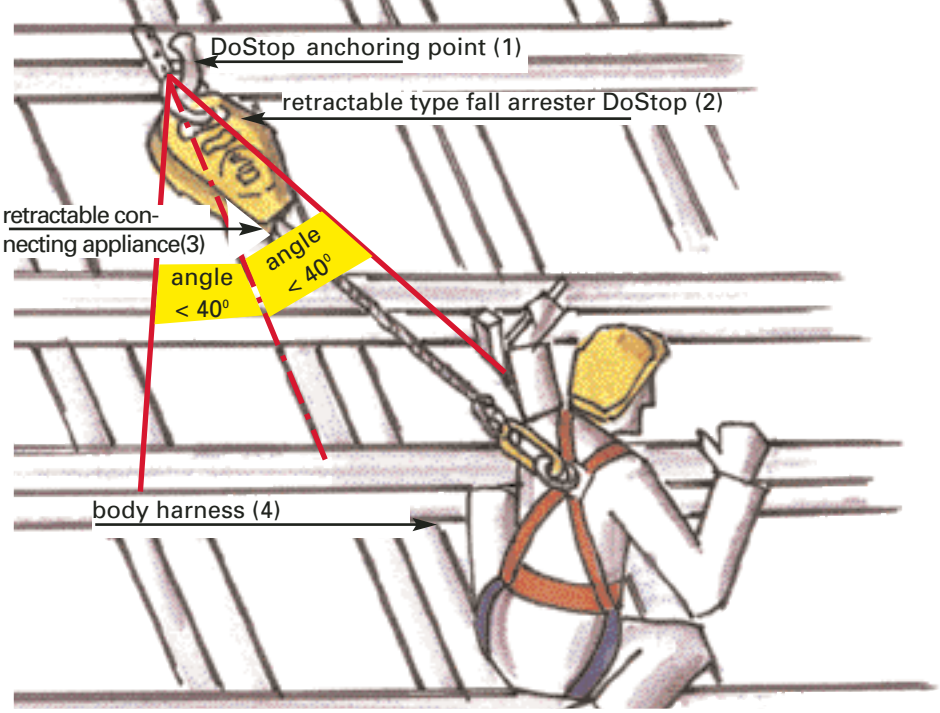
articleexecution No.		types of endfittings on one side	on other side	price 5 m EUR	price per any add. meter EUR
47116...	DoFS I	clip hook MS 51	clip hook MS 51	32,90	2,18
47216...	DoFS II	clip hook MS 51	back splice	23,90	2,18
47316..	DoFS III	clip hook MS 51	hand sling	23,90	2,18
47416...	DoFS IV	pipe hook MH 90	back splice	42,90	2,18
47516...	DoFS V	pipe hook MH 90	hand sling	42,90	2,18

The leading rope is to be kept tight by fixing it to the floor or by attaching a weight (of ca 10 kg)!

..= Please complete the article number with the length:
e.g. DoFS, L = 10,0 m: 47216100!
Standard lengths for DoFS: 5; 10; 15; 20 m!

Retractable type fall-arrester DIN EN 360 for variable working heights horizontally and vertically applicable

DoStop



Dolezych fall-arrester

DoStop (2) have a retractable connecting appliance (3) which is kept tight constantly by an automatic rope /belt heeling.
DoStop is attached to the anchoring point (1) above ones head, so it is always placed outside of your workspace. **DoStop** offers limited side movements.

Your advantage:

maximum freedom of movement !

The program of DoStep retractable type fall-arrester offers extension length of connecting links from 3,1 - 30m.
By the use of high-quality ,materials for casings, connecting links and swirl-snap-hook. Dolezych ensures highest safety with easy handling.

Important, please note:

With increasing sidewise movements the path of fall and the danger of oscillate is growing. Therefore the angle to the perpendicular should not exceed 40 °.

DoStop I

DoStop I, with connecting appliance made of webbing, housing of shock resistant plastic

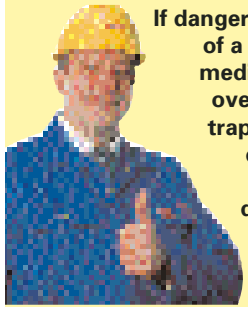
article No.	connecting appliance material/thickness	length in m	weight kg	connecting elements	price **EUR**
4700 0103	belt strip 25 mm wide	3,1	1,5	with swivel clip hook and steel clip hook	193,50
4700 0104	belt strip 25 mm wide	3,3	1,7	based on a swivel automatic clip hook	222,90

Retractable type fall-arrester DIN EN 360 for variable working heights horizontally and vertically applicable

DoStop

DoStop II

DoStop III



If danger arises that in case of a fall the connecting medium may be drawn over sharp edges (e.g. trapezoid iron sheets), devices for a 5 mm with rope diameter should be applied (e.g. DoStop II).

DoStop II with a galvanized steel wire rope, up to 16 m long, steel housing

article No.	connection link material/diameter	length in m	weight kg	dimensions l x w x h in mm	price EUR
4700 0206	galv. steel rope, 5 mm 6x19 + IWRC	5,0	5,0	275 x 160 x 84	375,00
4700 0212	galv. steel rope, 5 mm 6x19 + IWRC	16,0	11,0	385 x 240 x 140	578,00

DoStop III with a galvanized steel rope, up to 30 m long, housing of shock resistant laminated plastic or of aluminum *

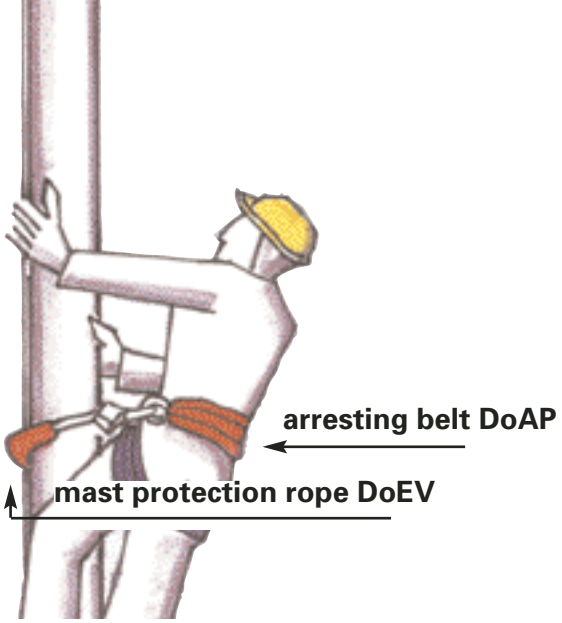
article No.	connection link material/diameter	length in m	weight kg	dimensions l x w x h in mm	price EUR
4700 0310	galv. steel rope, 4 mm 6x19 + IWRC	10,0	4,3	300 x 195 x 75	386,00
4700 0320	galv. steel rope, 4 mm 6x19 + IWRC	20,0	7,6	400 x 255 x 100	498,00
4700 0330	galv. steel rope, 4 mm 6x19 + IWRC	30,0	14,20	600 x 300 x 130	785,00

* in case of a device of 30 m!

It is nor allowed to use arresting systems with retractable type fall-arrester while working over liquid materials or bulk-cargo, in which one could cave in. The delayed fall prevents the release of the braking mechanism.

work positioning system DIN EN 358

DoAP / DoEV



Dolezych workpositioning-systems are arresting-belts DoAP with or without holding-ropes and adjustable mast-safety-ropes DoEV.
It is not allowed to use arresting systems as fall protection. Their only purpose is work-positioning (e.g. in case of working on platforms).
Dolezych arresting-systems are equipped with short holding or mast-safety ropes, so the user can not reach fall-endangered areas.
Therefore one has to choose the poimt of anchorage and the length of holding-rope carefully!

Dolezych arresting systems enable fast and safe work in a comfortable working position. Such convenience is offered by a comfortable back rest at the arresting-belts DoAP or by the djustable positioning equipment at the mast protection ropes DoEV.

Personal protective equipment

arresting function only, to prevent falls

Mast protection rope DoEV

with a 16 mm polyamide rope, rope shortener made of stainless steel, min. 0,5 m protection hose

article No.	length	price **EUR**
4799 2015	1,5 m	88,90
4799 2020	2,0 m	90,70

The positioning device is connected with an arresting eye by means of a snap hook. Then, the arresting belt is to be wound round the mast and the other end is to be hooked into the opposite arresting eye.

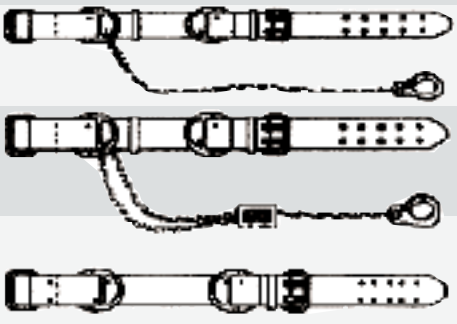
Standard sizes of arresting belts

size	belt length in mm	chest/ body round measure in mm
1	1300	800 - 900
2	1400	900 -1000
3	1500	1000 -1000
4	1600	1100 -1200

Special-sizes available on request!

Attention: One has to use holding-ropes with fall-absorber in case of slide-danger!

Arresting belt DoAP with a double mandrel buckle, 85 mm belt strip of polyamide



design	type	size	article No. with back rest	price **EUR**	article No. without back rest	price **EUR**
Not adjustable holding rope 1 m usable length 2 strong arresting eyes	**DoAP 1**	1	47747111	57,00	47747011	43,70
		2	47747112	57,50	47747012	44,20
		3	47747113	58,00	47747013	44,70
		4	47747114	58,50	47747014	44,90
Adjustable holding rope 1,4 m usable length 2 strong arresting eyes	**DoAP 2**	1	47747311	64,40	47747211	51,10
		2	47747312	64,90	47747212	51,70
		3	47747313	65,40	47747213	52,10
		4	47747314	65,90	47747214	52,70
no rope 2 strong arresting eyes	**DoAP 3**	1	47747511	44,70	47747411	31,40
		2	47747512	45,20	47747412	32,00
		3	47747513	45,80	47747413	33,00
		4	47747514	46,30	47747414	33,50

Anchorage points, mobile, stationary movement protecti-on

DoSis

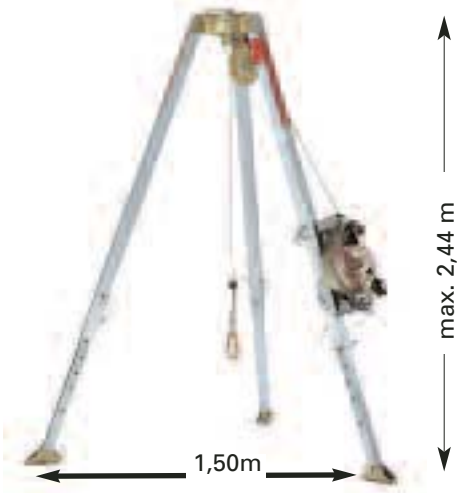
DoSis combination tripod with rescue-lifting device...if no anchorage point available...

article No.	length of rope in m	weight in kg	price per piece EUR
4756 0016	16	45,0	1.769,00
4756 0030	30	53,5	1.937,00

Optimum solution for maintenance and assembly work purposes at frequently changing sites, when no permanent protective equipment is installed, e.g. anchorage points, cat-walks, ascending protections etc. The tripod according to EN 795 B, as a mobile sling catching device offers maximum flexibility. With the combination of the altitude safety device according to EN 360 and the rescue-lifting device according to EN 1496 the user gets a reliable and flexible work aid.
Delivery includes arresting device to be fixed on the tripod.

Attention: only allowed to be used with a full body harness acc.to DIN EN 361.

Ideal for application for sewer works, underground building works etc.



Individual sling catches acc.to DIN EN 795, class A

Made of aluminum, suitable for application inside and outside. With two drilled holes for fixing on horizontal, vertical and inclined surfaces, e.g on masts or towers, at window openings on the roof or at a wall.
Color possibilities: alu- natural, black, white or red.

article No.	width in mm	height in mm	material thickness at drill holes	distance between the drill holes	price per piece EUR
4756 0099	130	60	13 mm	100 mm	17,50

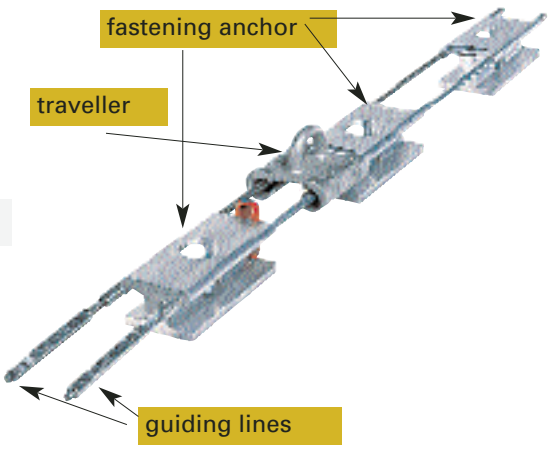
DoSis horizontal moving fall protection according to DIN EN 795, class C

A reliable and secure solution against falls. Ideal for application on roofs of industrial buildings or factory halls, on hall and bridge complexes, on bridges, telecommunication towers and everywhere, where risks of falling down exist.

The system consists of:

- traveller with an eye for slinging the personal protective equipment
- two guiding lines on which the traveller runs (over the anchors)
- anchor for rope fastening

Price on request.



Container cover-nets

Nets

The purpose of **Container nets** is to cover open containers, dump and open trucks. The handling of the products is simple and the nets offer maximum protection against outfalling or whirled up objects.

The container covering nets are manufactured of high quality polypropylene multifilament (PPM) which warrants their long life. We offer on request also nets of polyamide and polyethylene.

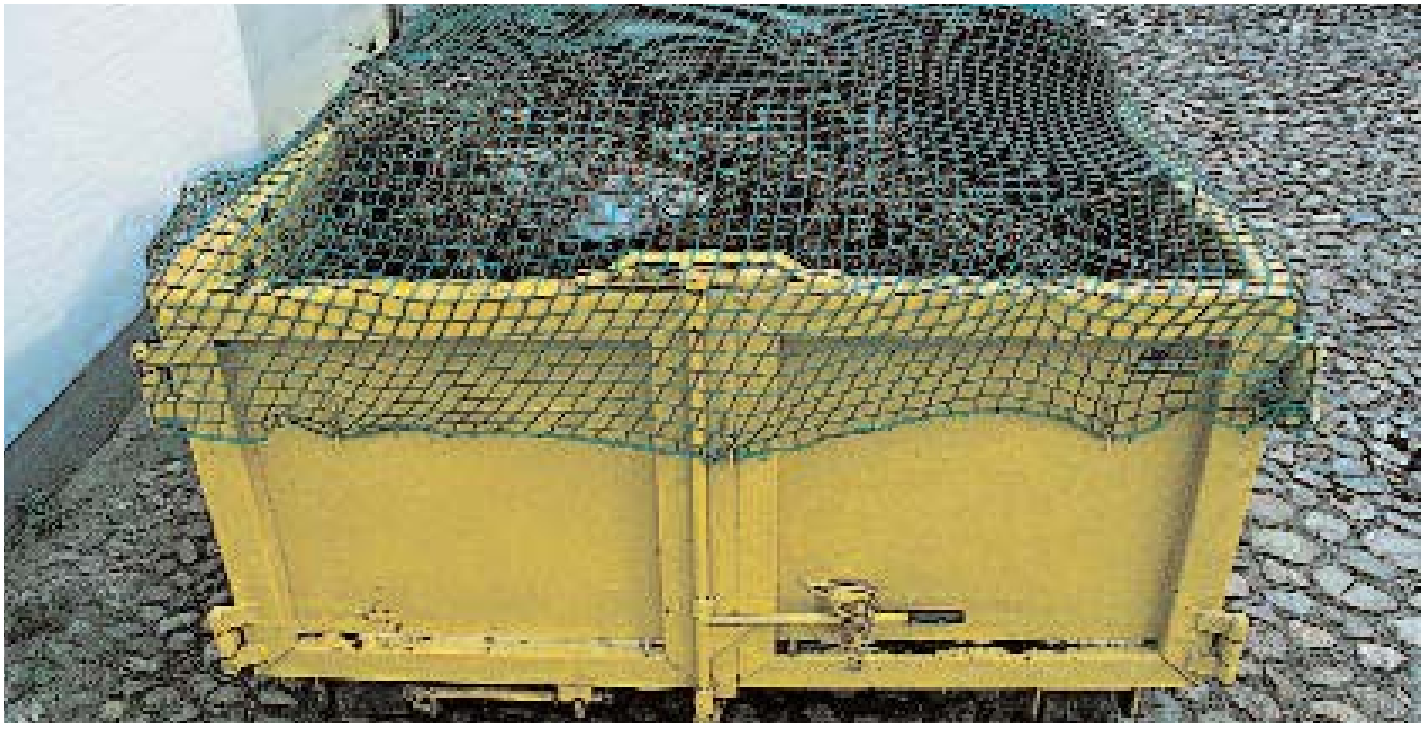
Container nets in standard sizes at special prices, surrounded by a robust item rope (net color: green)

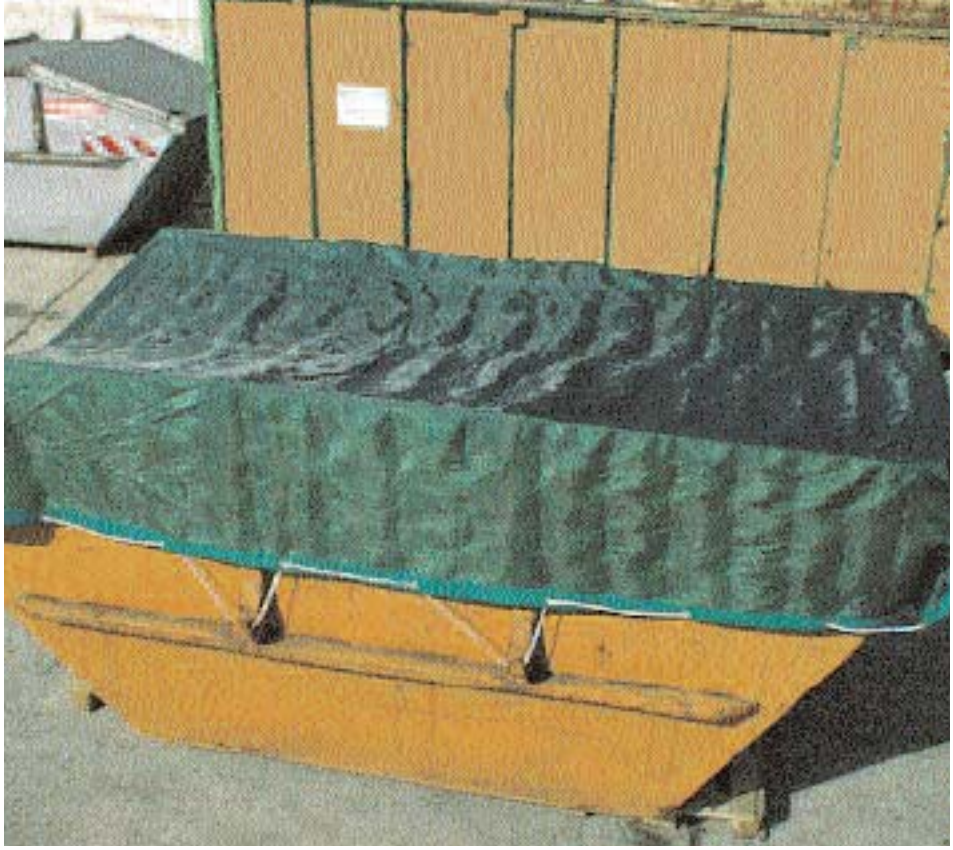
article No.	size in m	mesh width in mm	material thickness in mm	price per piece **EUR**
6706 0035	3,5 x 5,0	45	3	41,90
6706 0036	3,5 x 6,0	45	3	51,10
6706 0037	3,5 x 7,0	45	3	59,30
6706 0038	3,5 x 8,0	45	3	67,50
6706 0310	3,5 x 10,0	45	3	83,80
6706 0048	4,0 x 8,0	45	3	77,70

Container nets surrounded by a robust item rope

article No.	size in m	mash width in mm	material thickness in mm	price per piece **EUR**
6771 *221	3,5 x 5,0	20	2,0	73,42
6771 *251	3,5 x 5,0	20	2,5	80,99
6771 *351	3,5 x 5,0	30	2,5	69,64
6771 *451	3,5 x 5,0	40	2,5	61,00
6771 *551	3,5 x 5,0	50	2,5	50,77
6771 *531	3,5 x 5,0	50	3,0	61,00
6771 *541	3,5 x 5,0	50	4,0	80,78
6771 *041	3,5 x 5,0	100	4,0	55,07
6771 *222	3,5 x 6,0	20	2,0	88,05
6771 *252	3,5 x 6,0	20	2,5	96,69
6771 *352	3,5 x 6,0	30	2,5	83,14
6771 *452	3,5 x 6,0	40	2,5	72,35
6771 *552	3,5 x 6,0	50	2,5	59,92
6771 *532	3,5 x 6,0	50	3,0	71,84
6771 *542	3,5 x 6,0	50	4,0	96,12
6771 *042	3,5 x 6,0	100	4,0	43,32
6771 *223	3,5 x 7,0	20	2,0	98,27
6771 *253	3,5 x 7,0	20	2,5	112,33
6771 *353	3,5 x 7,0	30	2,5	95,56
6771 *453	3,5 x 7,0	40	2,5	82,06
6771 *553	3,5 x 7,0	50	2,5	66,52
6771 *533	3,5 x 7,0	50	3,0	82,63
6771 *543	3,5 x 7,0	50	4,0	110,37
6771 *043	3,5 x 7,0	100	4,0	74,09
6771 *224	3,5 x 8,0	20	2,0	111,77
6771 *254	3,5 x 8,0	20	2,5	125,27
6771 *354	3,5 x 8,0	30	2,5	109,06
6771 *454	3,5 x 8,0	40	2,5	92,85
6771 *554	3,5 x 8,0	50	2,5	77,21
6771 *534	3,5 x 8,0	50	3,0	93,11
6771 *544	3,5 x 8,0	50	4,0	125,27
6771 *044	3,5 x 8,0	100	4,0	83,70

*** Please complete the article number with the net color: 1 = green, 2 = white, 3 = black, 4 = blue**





Container fabrics
Container blankets

Nets

Container fabrics

According to the nature of the load, sometimes a close meshed container cover-fabric is more suitable than normal cover-nets,e.g. to avoid the loss of light goods like sand or grit or similar small bits and pieces by whirling up.
Our container cover-fabrics are made of robust, air permeable green band-fabric,it is uv-resistant, non-rottable and all around equipped with extra-wide, multiple-ply margin-reinforcement, and additionally each 50 cm with solid metal eyelets.
The air permeable material avoids the inflating of the blanket at strong wind (resp. at the transport of the containers).

Standard-sizes are kept for you on stock, ready for immediately shipments bu also individual-sizes are produceable.

Container polyethylene, air permeable, color: green

article No.	weight ca. g/m²	dimensions in m	price per piece **EUR**
6702 1035	200	3,5 x 5,0	67,50
6702 1036	200	3,5 x 6,0	74,40
6702 1037	200	3,5 x 7,0	80,90
6702 1038	200	3,5 x 8,0	89,60

Container polyethylene, air permeable, color: black

article No.	weight ca. g/m²	dimensions in m	price per piece **EUR**
6702 2035	240	3,5 x 5,0	94,50
6702 2036	240	3,5 x 6,0	113,40
6702 2037	240	3,5 x 7,0	132,30

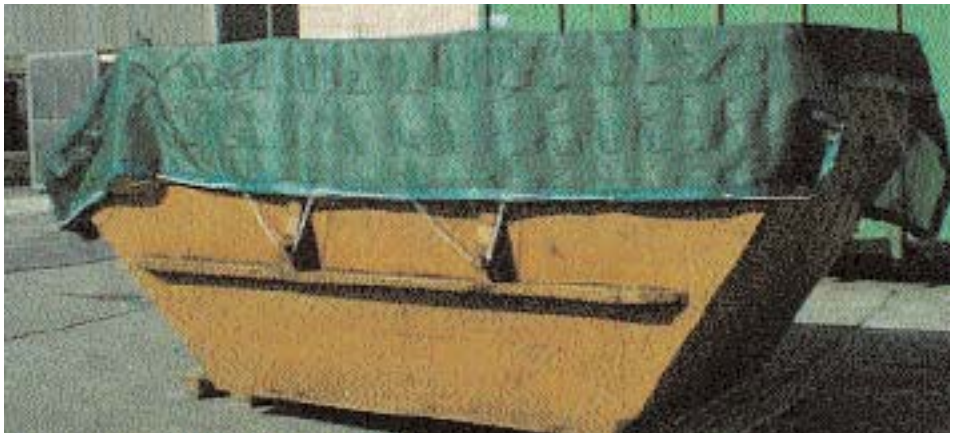
Container canvas

Waterproof protection by the help of our air permeable container cover.Blankets made of tearproof plastics.It is light, uv-resistant, surrounded by a margin reinforcement and equipped each 25 cm with half-round holes.

Standard-sizes are kept for you on stock, ready for immediately shipments but also individual-sizes are produceable.

Container canvas, water proof, air tight, of coated HDPE – band-fabrics, color green + nature (only 6,0 x 12,0)

article No.	weight ca. g/m²	dimensions in m	price per piece **EUR**
6702 2035	190	6,0 x 8,0	133,20
6702 2036	190	6,0 x 10,0	174,00
6702 2037	190	6,0 x 12,0	210,00
6702 2038	190	8,0 x 10,0	225,00



Intercepting nets

Nets

Intercepting nets according to EN 1263-1

Falling down persons or objects are reliably protected resp. intercepted by intercepting nets. A very efficient accident protection according to safety regulations BGR 179, of the Main Board of Professional Associations.

Yearly tests

Each intercepting and side protec-tion net bears the name of its manufacturer or supplier. Additionally you will find on it the production year and month, as well as its denomination accor-ding to EN 1263-1,the article description and the minimum energy consumtion potential. The yearly tests takes place when you will send one of the woven in control threads to check the maximum tensile force of yarn.

Intercepting nets according to EN 1263-1, Type S

of high strength polypropylene, ca. 5 mm thick, surrounded by a 12 mm item rope, square mesh form, without thimbles, the item rope is directly fastened to the sling catch by means of a 12 mm rope of polyamide. (earlier: Form C)

article No.	size in m	mesh width in mmm	energy absorption in KJ	price per piece **EUR**
6771 *111	5,0 x 5,0	100	2,3	109,06
6771 *611	5,0 x 5,0	60	4,4	192,91
6771 *411	5,0 x 5,0	45	4,0	213,90
6771 *113	5,0 x 10,0	100	2,3	197,41
6771 *613	5,0 x 10,0	60	4,4	385,87
6771 *413	5,0 x 10,0	45	4,4	427,80
6771 *114	5,0 x 15,0	100	2,3	281,82
6771 *614	5,0 x 15,0	60	4,4	578,78
6771 *414	5,0 x 15,0	45	4,4	641,67
6771 *118	10,0 x 10,0	100	2,3	363,47
6771 *618	10,0 x 10,0	60	4,4	771,69
6771 *418	10,0 x 10,0	45	4,4	855,60

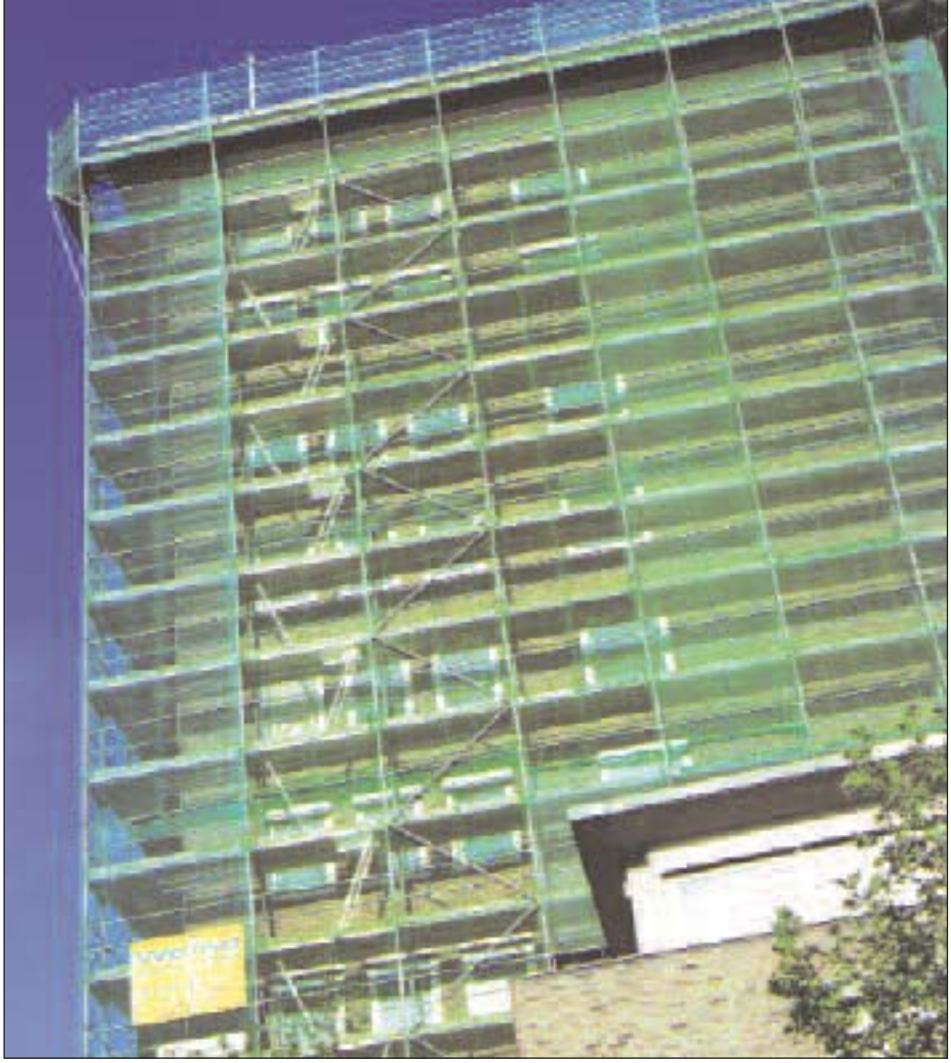
* Please complete the article No. with the net color:
1 = green, 2 = white, 3 = black, 4 = blue, 5 = red.

Intercepting nets according to EN 1263-1, Type S

of high strength polypropylene, ca. 5 mm thick, surrounded by a 12 mm item rope, square mesh form, with thimbles woven in corners and on the sides in a distance of 2,5 m from each other. (earlier: Form A)

article No.	size in m	mesh width in mm	energie-absorbtion in KJ	price per piece **EUR**
6763 *111	5,0 x 5,0	100	2,3	123,07
6763 *611	5,0 x 5,0	60	4,4	206,92
6763 *411	5,0 x 5,0	45	4,4	227,88
6763 *113	5,0 x 10,0	100	2,3	224,82
6763 *613	5,0 x 10,0	60	4,4	413,84
6763 *413	5,0 x 10,0	45	4,4	455,77
6763 *118	10,0 x 10,0	100	2,3	409,34
6763 *618	10,0 x 10,0	60	4,4	827,63
6763 *418	10,0 x 10,0	45	4,4	911,53

* Please complete the article No. with the net color:
1 = green, 2 = white, 3 = black, 4 = blue, 5 = red



Side protection nets

Nets

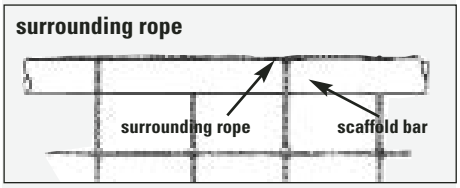
Efficient fall protection on scaffolds!

Side protection nets according to EN 1263-1

The side protection nets secure the building and construction workers an optimum fall protection and at the same time they protect against falling down objects. Their particular advantages are: low weight, minimum space demand and fast application.

Side protection nets according to EN 1263-1

Type U of high strength polypropylene, approx. 5 mm strong, encircled with a sewed on surrounding rope
(former type D)

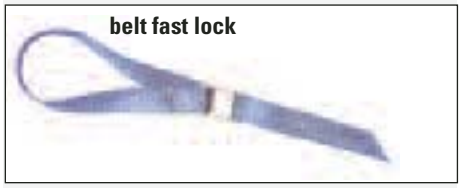


article No.	size in m	mesh width in mm	energy absorption in KJ	price per piece EUR
6751 *110	1,5 x 5,0	100	2,3	27,51
6751 *610	1,5 x 5,0	60	4,4	47,14
6751 *410	1,5 x 5,0	45	4,4	51,79
6751 *120	1,5 x 10,0	100	2,3	54,96
6751 *620	1,5 x 10,0	60	4,4	94,23
6751 *420	1,5 x 10,0	45	4,4	103,54
6751 *130	2,0 x 5,0	100	2,3	36,66
6751 *630	2,0 x 5,0	60	4,4	61,20
6751 *430	2,0 x 5,0	45	4,4	69,18
6751 *140	2,0 x 10,0	100	2,3	73,27
6751 *640	2,0 x 10,0	60	4,4	125,63
6751 *440	2,0 x 10,0	45	4,4	96,12

* Please complete the article No. with the net color: 1 green, 2 = white, 3 = black, 4 = blue, 5 = red.

Side protection nets according to EN 1263-1

Type U of high strength polypropylene, ca. 5 mm thick, surrounded by each 75 cm by sewed on belt fast locks
(former type D)



article No.	size in m	mesh width in mm	energy absorption in KJ	price per piece EUR
6752 *110	1,5 x 5,0	100	2,3	38,40
6752 *610	1,5 x 5,0	60	4,4	57,98
6752 *410	1,5 x 5,0	45	4,4	62,63
6752 *120	1,5 x 10,0	100	2,3	74,44
6752 *620	1,5 x 10,0	60	4,4	113,71
6752 *420	1,5 x 10,0	45	4,4	125,27
6752 *130	2,0 x 5,0	100	2,3	50,00
6752 *630	2,0 x 5,0	60	4,4	76,18
6752 *430	2,0 x 5,0	45	4,4	82,57
6752 *140	2,0 x 10,0	100	2,3	98,83
6752 *640	2,0 x 10,0	60	4,4	152,37
6752 *440	2,0 x 10,0	45	4,4	165,15

* Please complete the article No. with the net color: 1 green, 2 = white, 3 = black, 4 = blue, 5 = red.

Side protection nets according to EN 1263-1

Type U of high strength polypropylene, ca. 5 mm thick, surrounded by each 75 cm by sewed on clamp lock
(former type D)

article No.	size in m	mesh width in mm	energy absorption in KJ	price per piece EUR
6753 *110	1,5 x 5,0	100	2,3	35,38
6753 *610	1,5 x 5,0	60	4,4	54,96
6753 *410	1,5 x 5,0	45	4,4	59,62
6753 *120	1,5 x 10,0	100	2,3	70,66
6753 *620	1,5 x 10,0	60	4,4	109,93
6753 *420	1,5 x 10,0	45	4,4	119,23
6753 *130	2,0 x 5,0	100	2,3	47,14
6753 *630	2,0 x 5,0	60	4,4	73,27
6753 *430	2,0 x 5,0	45	4,4	79,66
6753 *140	2,0 x 10,0	100	2,3	94,23
6753 *640	2,0 x 10,0	60	4,4	146,54
6753 *440	2,0 x 10,0	45	4,4	160,50

* Please complete the article No. with the net color: 1 green, 2 = white, 3 = black, 4 = blue, 5 = red

New: no corrosion hazard, solid plastics, most simple handling, safety also when heavily dirtied.

Pallet rack protecting nets

Nets

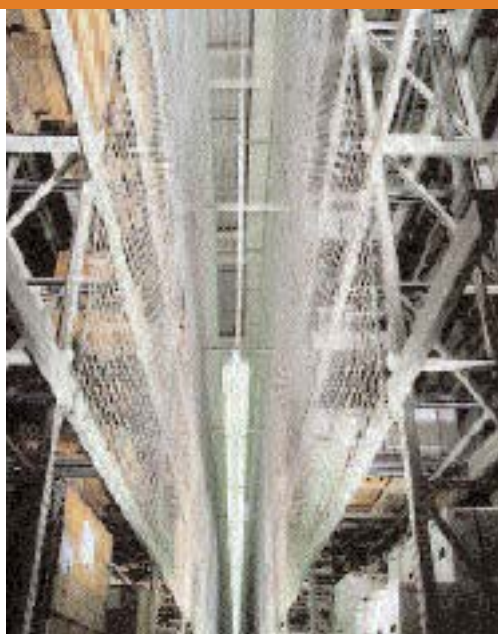
In systems of racks which are loaded and unloaded from one side only, the pallet nets offer an optimum protection against falling objects. During the daily work activity they protect against person and property damages and distinguish themselves by their low weight and simple application.

The application usually takes place through tying up by means of belt fast locks in net color.

Depending on the size and weight of merchandise which is to be protected, we offer nets of varying fiber strength and mesh width.

Pallet rack protecting nets of polypropylene, extremely strong, no knots

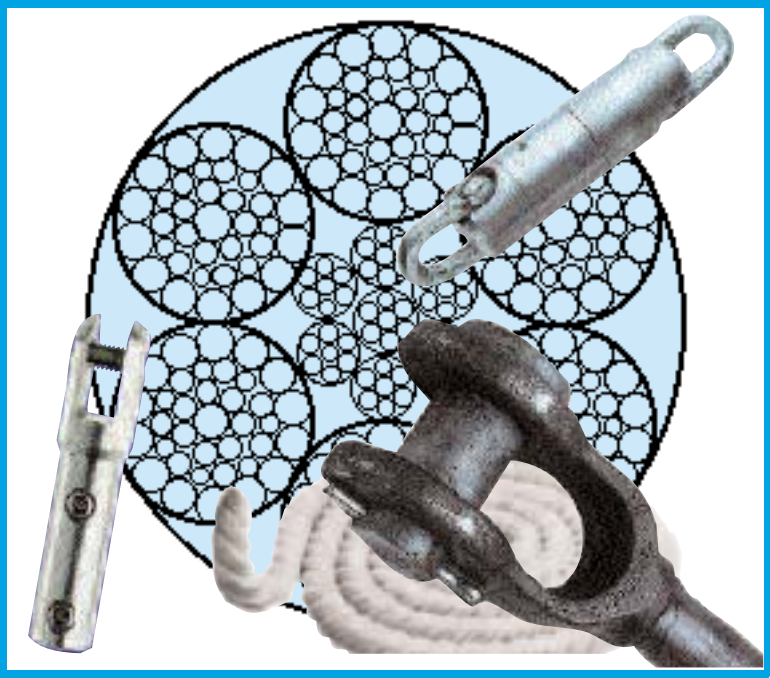
article No.	material thickness in mm	mesh width in mm	color	price per m^2 **EUR**
6750 0035	5	100	green	4,30
6750 0036	5	100	blue	4,30
6750 0037	5	100	black	4,30
6730 0038	3	45	green	4,80
6730 0310	3	45	blue	4,80
6730 0048	3	45	black	4,80
6723 0451	2,3	45	green	3,85
6723 0452	2,3	45	black	3,85
6718 0251	1,8	25	black	3,85



Accessories: lashing belt, 25 mm, one-piece with belt clamp, length 55 cm

article No.	color	price per piece **EUR**
1625 0254	green	0,90
1625 0255	blue	0,90
1625 0256	black	0,90

Ropes



Sling ropes

Wire-rope suspension

Running ropes

Standing ropes

Rope accessories

Fine ropes

stainless steel ropes

Railing ropes

Railing components

Climbing rope systems

Fiber ropes

Sling ropes for all kinds of slinging

DoAs

A sling rope of steel wire ropes belongs to the basicconfiguration in every industrial plant where loads are lifted and transported.

The production of ropes is regulated in the DIN EN 13414 (former DIN 3088). The well known distinction into types of sling ropes: N = regular ropes, F = Flemish eye,
K = cable sling rope and G = Grummet, does not exist anymore. The European system of regulations distinguishes the sling ropes rather by the type of their inlay and by the end-fittings.
Distinguished are 8 types of sling rope with different lifting capacities:

Sling ropes in pressed construction with aluminum or steel clamps with:

fiber core FC (1) or with steel core IWRC (2).

The tables showing **spliced end-fittings** for sling ropes with fiber core (3) or steel core (4) are considering the reduction of breaking strength caused by end-fittings.

For **cable laid rope in pressed (5) and spliced (6)** construction ropes with steel core are used, which are wound around a central fibre core.

The **endlessly laid Grummets** are distinguished by ropes with fibre core (7) or steel core (8). So the carrying function of the steel core is considered again, similarly as it was the case before the alteration of DIN 3088 in 1989.

If you take a load of say 4,5 t , you will get the following selection possibilities:

rope type 1	with fibre core, forced in, Ø 22 mm, WLL 5000 kg
rope type 2	with steel core, forced in, Ø 20 mm, WLL 4600 kg
rope type 3	with fibre core, spliced, Ø 24 mm, WLL 5600 kg
rope type 4	with steel core, spliced, Ø 22 mm, WLL 5000 kg
rope type 5	cable laid rope, forced in, Ø 27 mm, WLL 4800 kg
rope type 6	cable laid rope, spliced, Ø 30 mm, WLL 5600 kg
rope type 7	Grummet, fibre core, Ø 18 mm, WLL 4650 kg
rope type 8	Grummet, steel core, Ø 18 mm, WLL 4900 kg

Summarizing, the result is as follows:
When using steel cores, the sling rope diameter may be reduced by one nominal size, when using cable laid ropes, the rope must be by 1 up to 2 nominal sizes thicker in order to have the same lifting capacity as a standard rope with fibre core / pressed.
In the case of Grummet the load is disposed on two lifting strands, so the diameter of the individual rope may be clearly reduced once again.

Both the cable laid rope as well as the Grummet should be choosen when the flexibility of the sling - as in case of encircling a load - is important.
These types of ropes are absorbing bendings around smaller radius better than round-stand-ropes.

When buying quality you should attend to:

- marking with DIN, the producer's name and CE marks on the clamp
- is the pressing correct?
- is the dead-rope-end close to the clamp or overlaps it max. 0,5 x diameter (of the rope)?
- Is the dead-rope-end-in case of cylindrical conic pressing- visible in the control bore?
- Does the rope lay straight?
- Is the rope diameter correct?
- Is the clamp length 4,5 x d?

The DIN EN 13414 regulates the requirements to the raw material which is used and gives handling recommendations, which are observed exactly by quality conscious producers, like Dolezych.
The standard base for pressed end-fitting is DIN EN 13411-3. It regulates material requirements for press-clamps, further it describes the pressing process and quality controls.

Pressing-connections differ in materials:

In standard rope slings are produced with press-clamps made of aluminium-forging alloy. Steel-press-clamps are recommended for apllication in heat or in case of wear-danger. The standard pressing in is cylindrical. On request the press-clamp may be rounded towards the centre of rope, old DIN 3093 (type B).
Still better is the cylindrical - conical pressing-clamp (old form C) which towards the rope centre gets conically narrowed. This prevents considerably a „hooking" when the rope is pulled under the load.
Ropes of stainless steel are preferred pressed with copper or stainless steel clamps.

Sling ropes for all kinds of slinging

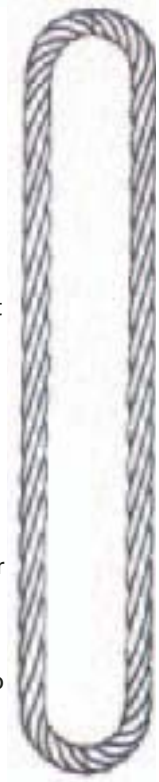
DoAs

Check sling ropes always prior to their use, resp. prior to their storage!

The splice

Instruction regarding how to carry out a splice, as well as the requirements in relation to splicers, including the necessary examinations, they have to pass, are subject of DIN EN 13411-2. Splice joints have the advantage of being very flexible. So e.g. a not loaded spliced rope can be pulled out from under a load which stands tight to the trucks side board. Splices, similarly as any other end joints shall not be bent under the load. Splices (not shown in the picture) are covered by braided strands or shrinking band in order to prevent hand injuries.

Endlessly arranged sling ropes, the "Grummets"



are manufactured according to DIN EN 13414-3. They are very flexible sling ropes which are applied particularly for heavy duty purposes. Here rope diameters of 100 mm and more are not a rarity. When these ropes are furnished with shackles, one should pay attention to the adequate dimensions of shackle bolts or shackle bows. Tests have shown that in case of the relation of bolt diameter to rope diameter (D:d) = 1, one should count with an effective loss of breaking load of ca. 25% while at D:d ≥ 4 no loss of effective breaking load must be taken into consideration.

These figures are clues; they depend on rope diameter (bigger diameter = higher loss on lifting capacity) and on the type of core . (Please compare the publication " Endlessly arranged sling ropes of triple cable splice type for heavy duty purposes", publication series of the Federal Board for Work Safety, Dortmund, series No. 620).

Apart from sling ropes Dolezych produces also exactly fitting ropes as elements of machines, with forced in terminal joints, like steel section thimbles or solid thimbles, tightening ropes and rope strands with forced or rolled in terminals of threads, eyes and forks, which are applied e.g. in rope supporting structures, light construction halls or for bridge bracing.

Thinner dimensions are terminals standard e.g. as numerous control lines. On many crane ropes and holding ropes are also applied terminal heads, which have been cast in a hot resp. cold casting process.

According to standards, these product are not sling ropes. However also in this case is the processing quality decisive.

Service Manual
Sling ropes

DoAs

The DoAs lifting ropes may be applied only for the purpose of lifting resp. transport of loads.

According to BGR 500 they are allowed to be handled only by personnel authorized and respectively instructed by the company management. This service manual is to be read carefully prior to the first use of the Dolezych products and strictly observed during their use. It is particularly referred to the following regulations and technical principles:

- DIN EN 13414-1 till DIN EN 13414-3 – steel wire lifting ropes
- BGR 500 – handling of load lifting facilities when operating cranes
- BGI 556 – Safety instruction for lifting personnel
- Safe lifting of loads, Resch Verlag (Resch publishing house), ISBN 3-935197-34-9

Also should be observed other, special regulations e.g. in case of the transport of dangerous goods.

Selecting lifting ropes

The selection of sling ropes should be meeting the requirements of the specific planned transport by applying the type, length and lifting method of ropes adequate for the load in order to avoid its undesirable movements.

Wrong selection of load capacity and/or of the type of slinging may lead to a rupture of the sling rope!

Sling ropes are not suitable for loads with sharp edges (except when additional edge protections will be applied) or for loads with temperatures exceeding -60°C up to + 100°C (exceptions pls. find under "the use of sling ropes under various temperature ranges").

The sling ropes may never be used for loads exceeding their load capacity!

Sling ropes set working:

Prior to setting working the selected sling ropes one should check whether their identification and measurements are correct.

Never use a sling rope damaged or with missing markings!

Identification of sling ropes:
(single-line) sling ropes have the following markings:

- Symbol of the producer DD
- CE-mark
- Load capacity in kg for direct lifting

Load capacities of single-line load slings with fiber core(not applicable in case of the DoFlex "K" type. In this respect pls. consider our load capacity chart):

ø of rope in mm	load capacity in kg	
	direct slinging type	lashed slinging type
8	700	560
10	1000	800
12	1500	1200
14	2000	1600
16	2700	2160
18	3150	2520
20	4000	3200
22	5000	4000
24	6300	5040
26	7000	5600
28	8000	6400
32	11000	8800
36	14000	11200
40	17000	13600
44	21000	16800
48	25000	20000

Suspensions have a load capacity plate with the following data:

- Symbol of the producer DD
- CE-mark
- Load capacity in kg for the β angle of inclination range from 0° up to 45° and from 45° up to 60°.
- Number of lines
- Rated line diameter in mm

Transport of loads:

Always follow the good slinging practice: prior to slinging, plan the slinging, lifting and lowering process.

1. Making preparations: fixing the weight of load and its point of gravity. Lecture of accompanying documents, paying attention to the marked points of slinging and to weight data, as mentioned on the load, resp. weighing the load with a crane weighing machine. Estimating of weight and of the point of gravity by means of data in a table of weights is not a recommendable solution. The crane hook will be placed on the right position only, when the position of the point of gravity is fixed correctly!
2. The crane operator is to be informed of the weight of the load.
3. The crane hook is to be driven vertically over the load's point of gravity.
4. Slinging the load:

   When loads are not hooked on correctly, they may get shifted or fall down. A falling load may result in heavy injuries or death!

   The load is to be hooked on in such a way that both a damage to the load as well as to the lifting rope will be avoided. In order to lift the load without its revolving or falling down, the following conditions are to be met:

   a) in the case of single-line sling ropes the point of slinging should be placed vertically over the load's point of gravity.
   b) In case of double-line suspensions the points of slinging should be placed on both sides and over the load's point of gravity
   c) In case of suspensions of three or four lines, the points of slinging should be placed symmetrically on a plane around, and over the load's point of gravity.

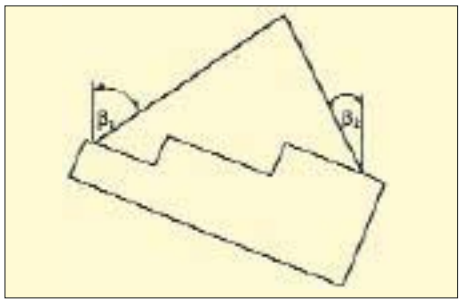
The β angle of inclination (the angle between the plumb and the means of lifting) is absolutely to be observed: the bigger the angle of inclination, the smaller the load capacity. Angles of inclination of over 60°C are not acceptable!

Service Manual
Sling ropes

DoAs

In case of three and four line suspensions and an uneven load distribution, one may start only with the load capacity of a double line suspension, depending on the angle of the biggest inclination. In case that double–line suspensions with different angles of inclination (see the drawing) take place, one may base on the load capacity of one line only.

An example of uneven angles of inclination:



The higher load is being lifted by the more vertically hanging line. **Only one line is to be considered the bearing one!**

One should always count with an uneven load distribution, when:

- the load is not flexible (e.g.: elements of concrete, castings, short girders etc.),
- the position of the point of gravity is unknown,
- the load has an uneven form, different angles of inclination take place.

Only proper and sufficiently dimensioned points of force application on the load should be used. **Never hook on under the winding!**

One should not select too short slings of sling ropes in order not to exceed when slinging, e.g. by hooking on, the opening angle of 20°C. Otherwise respective reduction suspensions/ adapter-slings should be applied. A special advice with respect to endlessly spliced load slings (Grummet):
The contacting ends of splices have been marked red. Such a place is not allowed to be bent by force, i.e. by no means to be hooked on!

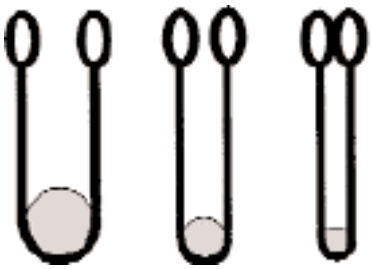
Attention: hooking is not allowed during the process of slinging!

Exceptions to this principle is slinging of:

- big load pieces, in case when shifting together of the means of slinging and the displacement of load are out of question
- long, bar-shaped loads to be used under a traverse, when a scew position of the cross-beam is avoided with pressure brought on it and the load is held in such a way that it does not bend in excess. A scew position of a traverse does not have to be avoided under pressure, when because of its nature and of the outer surface of this load, or because of the way of its slinging, the protrusion of the load or of its elements may be avoided.

Small radiuses of rope curves require the reduction of load capacity!

On the following drawings a few examples with the connected load capacities (in %) have been presented:



D = 6xd
100 %

D = 3xd
75 %

D = 2xd
65 %

(D = bolt diameter;
d = rope diameter)

When suspensions will be used in such a way that not all lines are bearing load, then the unused lines should be lifted by the pulley block. Thus the load capacity is being limited to that of the used lines.

5. Abandoning the zone of danger.
6. Keeping communication with all involved in the process of slinging. Giving warning to all not involved in the transport and present within the peril range of unloading.

Warning: persons endangered are e.g. the slinging personnel and all other persons present within the range of transport!

7. Giving signals to the crane operator by one person only.
8. At trial lifting attention should be paid whether:
   a) the load has been hooked on or fixed well,
   b) the load is well balanced resp. properly hanging and
   c) all lines are equally bearing.
9. Inclined loads are to be lowered and hooked on again.
10. Load transport by means of a hoisting crane
11. During transport of large-size parts or under wind load the weight is guided by a guide rope, going beyond the danger zone, for e.g. alongside instead of in front of the travelling crane.
12. Unhooking the load in conformity with the hook operator's instructions.
13. Protecting the load against overturning and disintegration
14. Removal of slinging elements from the load
15. Hanging the hook of the means of slinging on the suspension ring
16. Attention to load release when lifting unused means of slinging

Important use and warning hints:

- Use protective gloves whilst working with slinging ropes (danger of injuries)
- Avoid jerking or jerking loads
- No bending force should be applied to the clamps. Rope splices and clamps cannot be placed on the edges of the load, in crane hooks or in rope fakes. The ropes cannot be kinked.
- Sling ropes cannot be fastened on sharp edges or pulled over sharp edges.

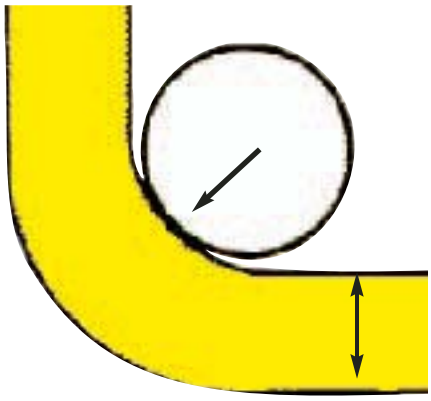
  The edge is already considered sharp, when the edge radius is smaller than the rope diameter: in

Operating instructions

Sling ropes

DoAs

case of loads with sharp edges, sling ropes should be protected with pads (Dolezych edge angles, temporary square timbers).



- Sling ropes must not be shortened by entangling the rope around the hook
- Sling ropes must not be fastened by twisting.
- Loads must not be dropped on the sling ropes, otherwise this might damage the ropes.
- Accessories (e.g. suspension rings, hooks) have to be free movable.Suspension links have to be movable on the crane hook.
- Sling ropes, which are laid several times around the load, cannot cross each other. Rope whorls have to be adjoin each other.
- The opening angle must not exceed 20° (for meeting the standard the hook width can not exceed 1/3 of sling length).

Storage of sling ropes:

Sling ropes are stored on racks in hanging position.

Use of sling ropes with chemicals:

Sling ropes cannot be exposed to the influence of chemical agents.

Application of sling ropes for load lifting under different temperature ranges:

Admissible temperatures of application for sling ropes depends on the rope end fitting and the type of rope cores.

The table below specifies the load-carying capacities:

rope end fitting-	rope core	range of temperature °C	lifting capacity in %
aluminium clamp	fibre	-60 bis +100	100
	steel	-60 bis +150	100
splice	fibre	-60 bis +100	100
	steel	-60 bis +250	100
	steel	+250 bis +400	75
flemish eye	fibre	-60 bis +100	100
	steel	-60 bis +250	100
	steel	+250 bis +400	75

periodical tests:

In conformity with the operating safety regulation, sling ropes have to be examined by an authorized person (expert) on inspection dates based on an employer's assessment of hazards, and after extraordinary events, which could harmfully influence the rope safety. Results of inspections should be recorded (the DoQM software for filing inspection results is available at Dolezych). Depending on the conditions of sling ropes, inspections might be necessary at shorter intervals, which means - in periods shorter than a year. It is essential for example, in cases of particular frequently use, increased wear, corrosion or influence of high temperature or, according to employees experience there exist an increased danger of damage.

During the duration of usage the user should regularly undertake visual inspections with the purpose of detecting any damages, including defects hidden under dirt, which could pose a threat to the continuous and safe use of sling ropes. As soon as there are any doubts regarding the safety use of ropes, it should be excluded from operation and an examination by an expert should be ordered.

discarding maturity for sling ropes:

Sling ropes must not be used (discarding maturity) in case of:

- breaks and kinks
- breaking of rope strands
- decrease of rope diameter $\bar{>}$ 10%
- loosening of external layer, while the rope is freely stretched
- squashed places, while the rope is freely stretched
- squashed places in the sling eye area with more than 4 broken wires (or with more than 10 broken wires in case of DoFlex "K")
- corrosion grains
- damage or considerable wear of rope end termination
- number of visible broken wires on the length of:

	3d	6d	30d
DoAS	4	6	14
DoFlex „K"	10	15	40

(d = rope diameter)

The figures given in the table above are the maximum boundary values. Discarding of a rope with alower number of broken wires, increases the safety.

General danger indications:

When lifting loads the person beneath or next to the load is endangered.As manufacturer we have to draw the user´s attention to residual hazards, connected with handling of lifting appliances, particularly with regard to the security of connection of the lifting appliances to the load.
Falling-down loads pose danger both to people and goods.

As User, please take care and train your slinging and crane operators at respective courses.

Operating instructions

Sling ropes

DoAs

Steel rope load slings DIN EN 13414 Tensile strength class 1770

Dolezych presses clamps cylindrically standard. The long conical pressings as according to DIN EN 13411-3, form C is carried out on request by means of specially designed clamps. The advantages appear under load, because nothing will catch. When asking for a long conical pressing, please make in your order the note: "long conical".

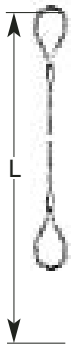
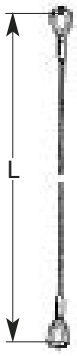
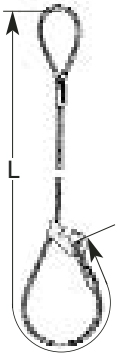
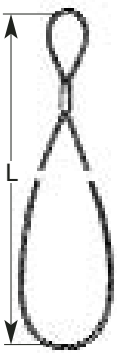
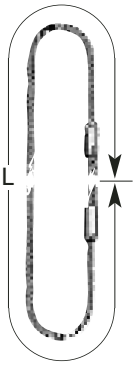
Steel rope load slings – types

Please specify in your order L = effective length measure and the article num

Please complete the article No.with the rope's Ø ".. "

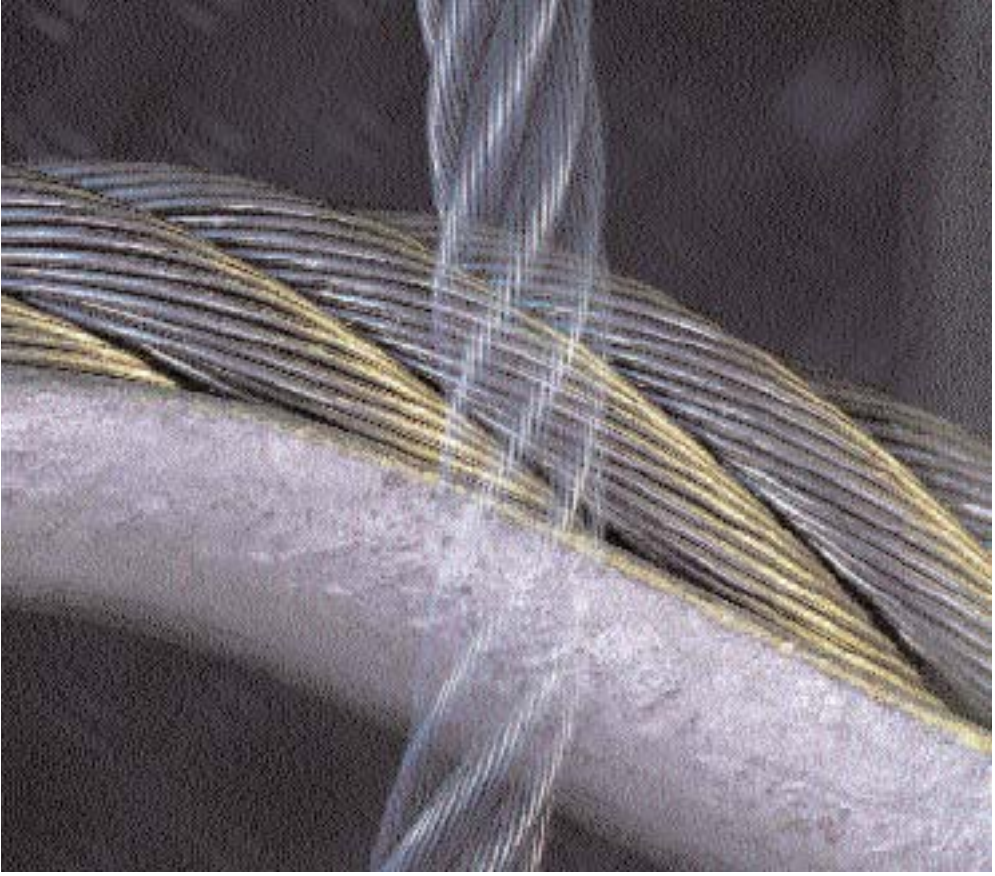
* **Please multiply the lifting capacity by factor 1,4**

** **Please multiply the lifting capacity by factor 2**

pict. 13	pict. 14	pict. 22	pict. 21	pict. 24	pict. 23
					
slings	thimbles form 6899 B	special thimbles	sling and sliding hook	endless rope with 1 clamp*	endless rope with 2 clamps**

lifting capacity in kg at inclination angle of 0°	nominal ø rope mm	article No. 0213 . . 01	price per 1 m of effective length 0214.. 01	0222. . 01	0221 . . 01	0224 . . 01	0223 . . 01	price per any add. meter
		EUR	EUR	EUR	EUR	EUR	EUR	EUR
700	08	8,25	9,70	11,50	26,90	7,40	8,90	1,30
1000	10	11,10	11,95	15,10	29,75	9,45	11,90	1,80
1250	11	11,65	13,60	17,05	31,30	10,95	13,65	1,95
1500	12	13,50	14,65	17,50	32,60	12,50	14,05	2,75
1750	13	15,00	17,75	21,50	35,05	13,10	15,45	3,00
2000	14	16,00	18,50	22,40	39,80	16,20	16,35	3,45
2700	16	18,20	22,75	28,65	57,75	23,25	19,40	4,10
3150	18	23,00	29,35	34,35	64,50	27,00	25,00	4,90
4000	20	33,60	36,00	46,20	93,85	33,20	35,25	5,70
5000	22	36,60	39,55	56,70	101,30	44,20	39,65	6,75
6300	24	50,50	54,00	71,85	117,15	59,20	54,55	7,85
7000	26	62,45	66,90	85,10	-	62,05	67,35	9,20
8000	28	69,90	86,70	110,20	-	-	77,45	10,60
11000	32	95,75	139,25	192,90	-	-	108,95	13,80
14000	36	137,70	190,30	237,45	-	-	152,25	17,40
17000	40	197,30	239,50	305,70	-	-	217,60	21,65
21000	44	252,35	355,85	444,95	-	-	287,85	30,70
25000	48	362,40	-	-	-	-	-	37,75
28000	50	451,75	-	-	-	-	-	43,25
32000	56	610,55	-	-	-	-	-	56,40

Please complete the article No.with the rope's Ø ".. "



Steel rope load slings DIN EN 13411-3 Flemish eye

DoAs

Advantages of "Flemish eyes"

- creation of an eye by means of splicing + forcing in = 100% of minimum breaking load safety with respect to all 6 strand types
- the conical, slender pressed steel clamp does not catch when pulled with load or when bundled
- more wear resistant than an Alu-clamp
- ideal for the application under heat up to 400 °C – when the steel rope is furnished with a steel core and a steel press clamp
- 75% of lifting capacity still remain at temperatures of +250°C up to +400°C
- low rate of wear, thus advantageous price to capacity relation
- top safety
- easy handling in numerous fields of application

Lifting capacity data in the tables base on DIN EN 13414

Steel rope load sling "Flemish eye" ca.10% highe lifting capacity, heat resistance up to 400°C

lifting capacity in kg at direkt inclination angle of 0°	nominal ø rope mm	galvanized rope with 2 slings	bare rope with 2 slings	galvanized rope with 2 slings	bare rope with 2 thimbles	L = usable length measure and art. No. are to be specified in order	
		article No.		price per 1 m of effective length		price per any add. meter	
		0233 . . 01	0235 . . 01	0234 . . 01	0236 . . 01	verzinkt	blank
		EUR	EUR	EUR	EUR	EUR	EUR
750	08	13,25	13,05	13,95	13,80	2,50	2,25
1150	10	16,40	16,00	16,60	16,25	3,00	2,70
1700	12	18,95	18,35	20,35	20,00	3,60	3,25
2250	14	22,10	21,20	25,65	25,20	4,65	4,15
3000	16	25,95	24,75	28,95	28,45	5,45	4,80
3700	18	44,45	42,80	45,65	44,90	6,50	5,70
4600	20	48,05	45,95	51,90	51,05	7,65	6,80
5650	22	57,30	54,65	63,15	62,10	8,95	7,85
6700	24	84,05	80,80	83,50	82,25	10,45	9,20
7800	26	90,05	86,00	107,20	105,75	12,20	10,70
9000	28	104,15	101,55	123,95	120,95	14,10	12,50
11800	32	145,85	140,40	178,65	173,95	18,30	16,10

Please complete the article No.with the rope's Ø ".. "

Order example:

You would like to order:
1 piece of a steel rope load sling Flemish eye with galvanized rope and with thimbles, rope diameter 10 mm, 4,0 usable length.

And this will be your order:
1 piece art.no. 02341001 of 4,0 m of usable length

Influence of application under heat on the loss of lifting capacity

type of rope end connection	rope core	temperature range 0°	lifting capacity %
alu-press clamp	fibre	-60 up to 100	100
	steel	-60 up to 150	100
splice	fibre	-60 up to 100	100
	steel	-60 up to 250	100
	steel	+250 up to 400	75
flemish eye	fibre	-60 up to 100	100
	steel	-60 up to 250	100
	steel	+250 up to 400	75

Excellent lifting capacity marking by means of roll embossing of data into a press clamp on request, against EUR 0,75 only.

Load slings

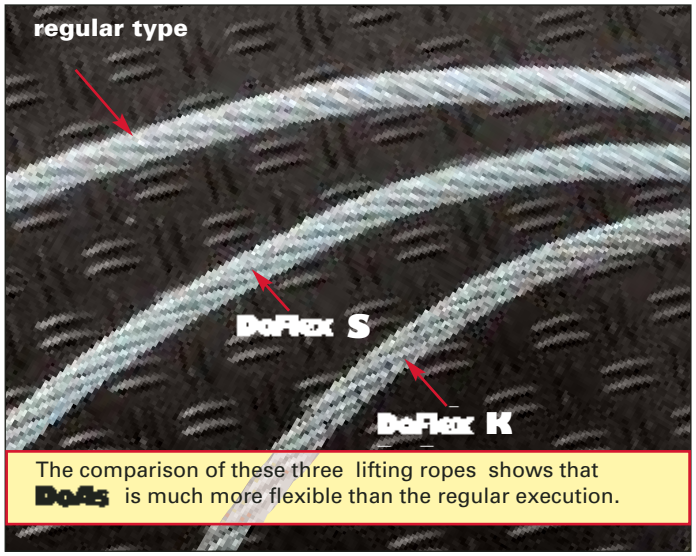
DoFlex

Wish your sling operator these butter-soft ropes which will better cope with smaller turning radiuses
- Special type of DoFlex S = = 6x61 + FC
- DoFlex K = triple cable splice sling rope type

Decrease costs with DoFlex load slings!

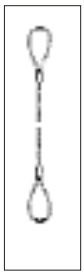
Their advantages:

- these most flexible of all sling ropes are excellently pliable with the load
- high lifting capacity thanks to adequate use of rope diameter in case of DoFlex S
- super pliability of DoFlex K
- prevent problems with breaks and kinks



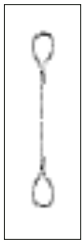
The comparison of these three lifting ropes shows that DoFlex is much more flexible than the regular execution.

DoFlex S, 6 x 61 + FC load slings, flexible



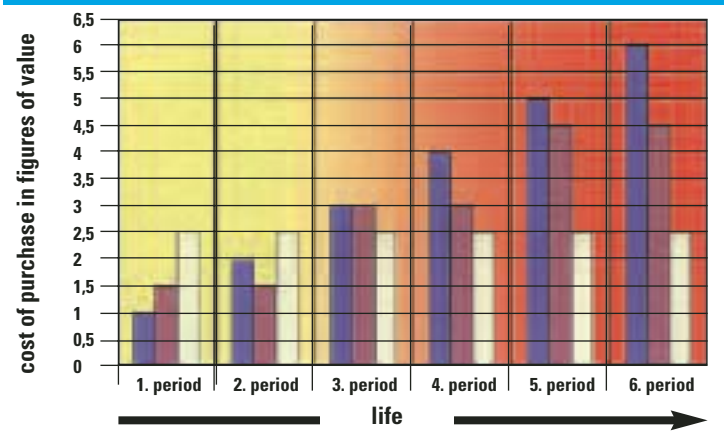
article No.	nominal rope diameter mm	liftig capacity at inclination angle=0°	price per 1 m EUR	price per any add. 0,5 m EUR
0261 1301	13,0	1.750	18,75	2,00
0261 1601	16,0	2.700	23,15	2,70
0261 2001	20,0	4.000	42,90	3,75
0261 2201	22,0	5.000	48,45	4,40
0261 2401	24,0	6.300	64,95	5,15
0261 2801	28,0	8.000	93,55	6,90
0261 3101	31,0	10.000	129,85	9,00
0261 3301	33,0	12.000	173,85	9,55
0261 4001	40,0	17.000	264,05	14,05

DoFlex K, triple cable splice load sling rope type, flexible



article No.	nominal rope diameter mm	liftig capacity at inclination angle=0°	price per 1 m EUR	price per any add. 0,5 m EUR
0285 2401	24,0	3.800	95,20	6,60
0285 2701	27,0	4.800	121,95	7,85
0285 3001	30,0	6,300	141,50	8,20
0285 3301	33,0	7.600	174,15	8,85
0285 3601	36,0	9.000	195,70	12,60
0285 3901	39,0	10.500	280,05	14,00
0285 4201	42,0	12.500	335,05	15,70
0285 4801	48,0	16.000	377,20	19,75

DoAs sling ropes in a profitability comparison of types of ropes



As regards purchase the sling ropes type "N" have the price factor 1. The price of the flexible sling ropes DoFlex "S" is by ca. 1,5 higher. In case of DoFlex "K" the price factor is 2,5. As regards their life, the DoFlex "K" are superior to the regular rope execution by factor 3, the triple cable splice load sling ropes – by factor 6.

This means that a higher investment just at the beginning proves profitable already after a short time, according to the diagram already after the third investment into rope "N".

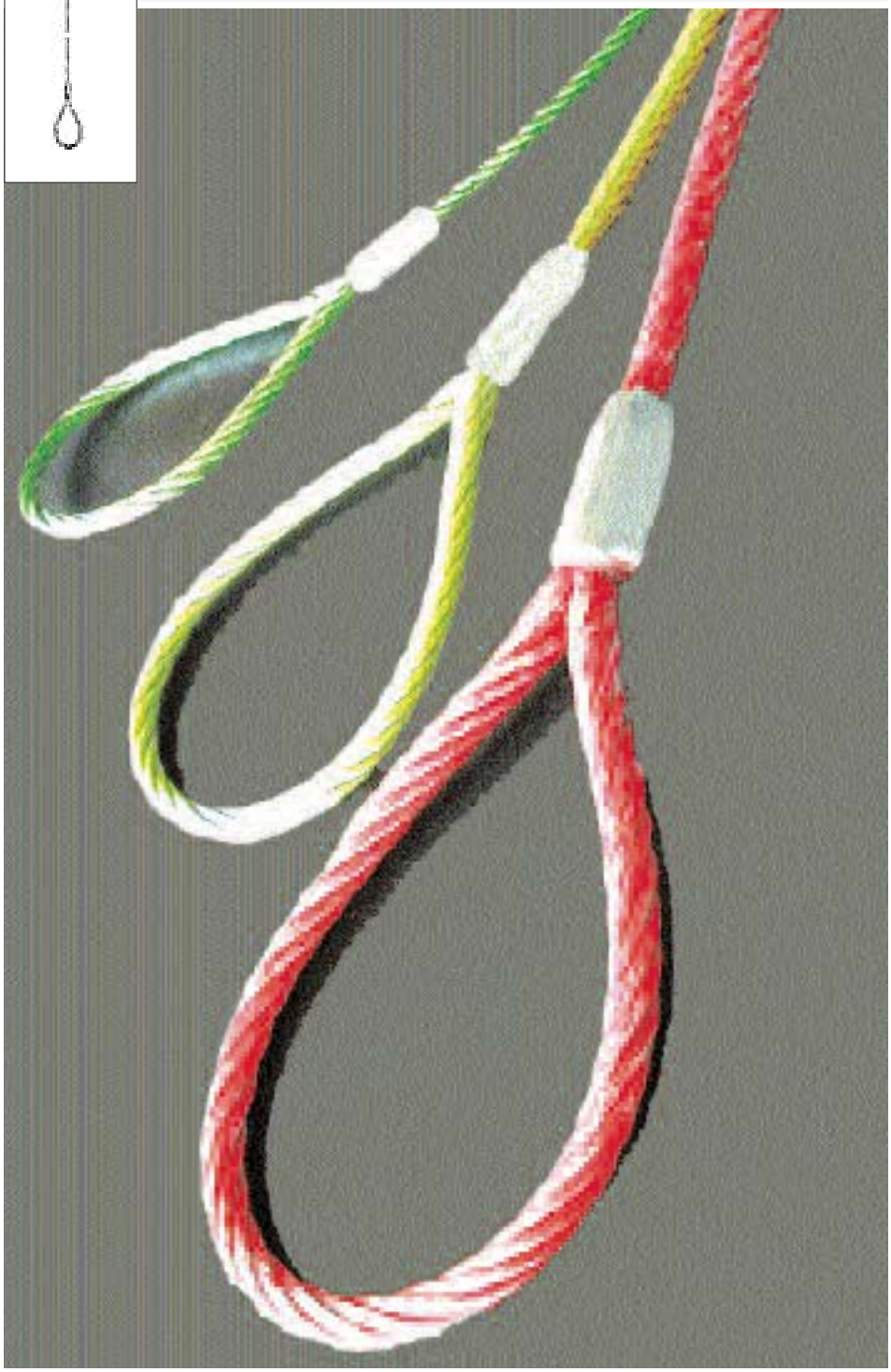
New!

Wire rope load slings DIN EN 13411-3

DoPremium

DoPremium load sling, 6 x 61 IWRC

article No.	nominal rope diameter mm	lifting capacity at inclination angle =l 0°	basic price per 1 m EUR	price per any add. 0,5 m EUR
6261 1301	13,0	2.000	26,70	3,65
6261 1601	16,0	3.000	32,60	4,75
6261 2001	20,0	5.000	53,50	6,90



DoPremium slinging ropes

combine in one product the advantages of different types of slinging ropes:

- you are receiving with the rope construction 6x61 IWRC a very flexible rope only made of steel which, which is regarding to the breaking load, is definitely superior to a standard load sling with a fiber core.
- The selected wire strength of 1960 N/mm² supports the requirement for a high breaking load.
- The pressed clamps “Flemish eye” offers a robust steel clamp which is very regarding the wear of abraison resistant.
- The conical form of mechanical spli ce prevents that the lifting applian ces interlock when moving with the load above.
- The slinging ropes are manufactured complete with the European color code, which is known from lifting belts and roundslings (DBGM).
- With the 3 dimensions distinguishable by traffic lights colors: green, yellow and red and with the lifting capacity of 2 up to 5 t, covered has been the range of the typical transport tasks.

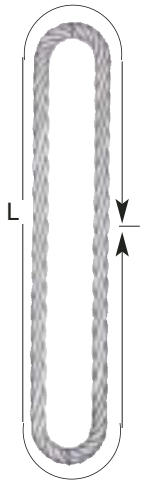
High lifting capacity
+ flexibility when handling
+ robust end piece
+ color code

= top safety

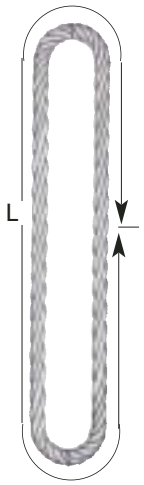
Grummets DIN EN 13414-3 rope strength class of 1770

DoAs

article. No.	nominal rope diameter mm	lifting capacity per piece when vertical kg	basic price per 1 m L **EUR**	price per any add. 0,5 m **EUR**
0287 0901	9	1.500	7,50	5,95
0287 1201	12	2.100	8,65	6,35
0287 1501	15	3.200	10,75	7,05
0287 1801	18	4.650	11,85	7,85
0287 2101	21	6.300	14,00	8,95
0287 2401	24	8.300	16,15	10,25
0287 2701	27	10.500	17,20	11,95
0287 3001	30	11.500	20,45	13,15
0287 3301	33	14.000	23,65	14,80
0287 3601	36	16.500	25,80	16,80



article. No.	nominal rope diameter mm	lifting capacity per piece when vertical kg	basic price per 1 m L **EUR**	price per any add. 0,5 m **EUR**
0288 1801	18	4.650	16,15	11,70
0288 2101	21	6.300	18,25	13,50
0288 2401	24	8.300	19,35	13,85
0288 2701	27	10.500	20,45	15,05
0288 3001	30	11.500	21,50	15,80
0288 3301	33	14.000	25,80	17,70
0288 3601	36	16.500	29,95	19,45
0288 3901	39	19.500	31,15	21,20
0288 4201	42	22.500	38,65	24,05
0288 4801	48	29.500	42,95	28,25
0288 5401	54	37.500	54,75	32,85
0288 6001	60	46.000	62,30	38,05
0288 6601	66	57.000	81,60	45,90
0288 7201	72	70.000	91,25	53,00
0288 7801	78	84.000	108,40	58,95



What are Grummets?

Grummets are manufactured of single layer round strand ropes with fiber or steel core. Around the core rope are helically arranged 6 arms. Because of the big number of processed wires (at least 7x6x19 = 798 up to 7x6x37 = 1554 wires), Grummets are very flexible. Their application of preference are heavy loads. Apart from rope diameters presented in the tables, our program of deliveries includes Grummets of 120mm of diameter and 150 t of lifting capacity per pair and even bigger.

When applying the Grummets, please note:

- they should be applied in pairs only
- pay attention that the hanging bolts are correctly dimensioned (if its possible not smaller than 4 times of the rope diameter)
- take care that the legs do not cross
- places of impact which are marked with colors should never be positioned as points of load suspension, of hooking or slinging, but should always be on the free hanging rope.

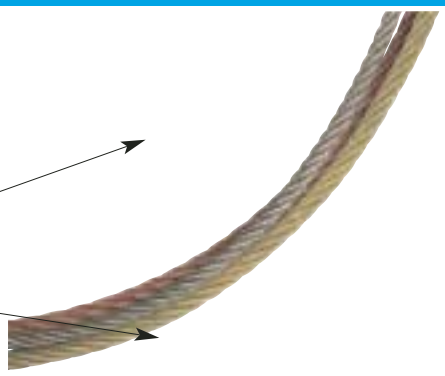
DoSL – heavy load suspension, WLL 100t

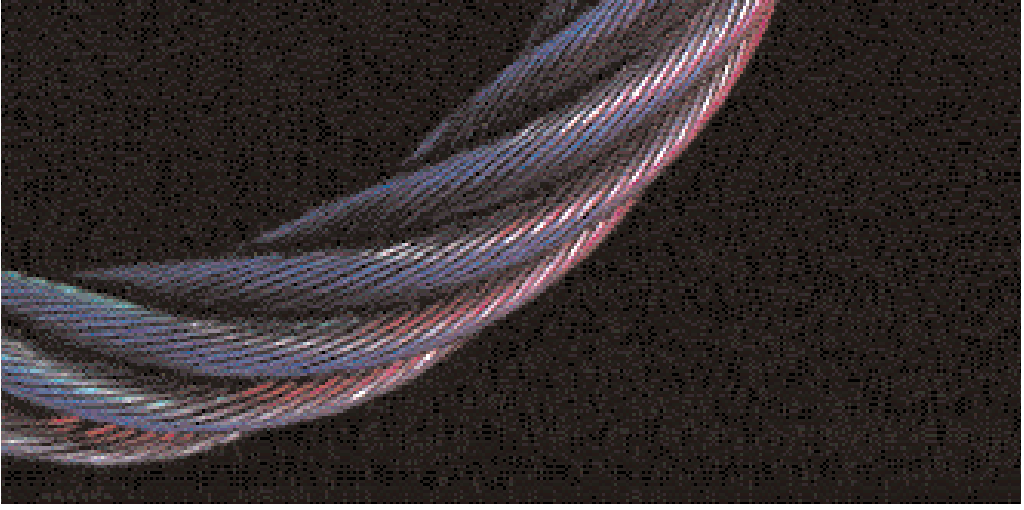
article No.	lifting capacity	weight kg	price per piece **EUR**
0321 8100	100 t	400	pls inquire!

Hanging bolt centered itself in the crane hook

carrying bolt diameter is 300 mm

Prices for bigger sizes and bigger lifting capacities – on request.

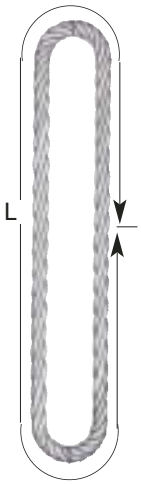




Grummets DIN EN 13414-3 rope strength class of 1770

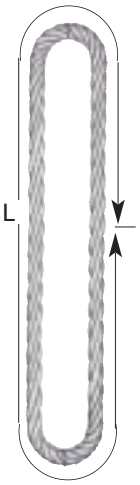
DoAs

Attention: under hanging the inclined position of load and slipping of the lifting appliances have to be avoided!



article. No.	nominal rope diameter mm	lifting capacity per piece when vertical kg	basic price per 1 m L **EUR**	price per any add. 0,5 m **EUR**
0289 2401	24	8.300	20,45	14,65
0289 2701	27	10.500	21,50	15,20
0289 3001	30	11.500	23,65	17,15
0289 3301	33	14.000	27,95	18,90
0289 3601	36	16.500	30,10	20,85
0289 3901	39	19.500	32,25	22,75
0289 4201	42	22.500	38,65	27,95
0289 4801	48	29.500	45,10	32,35
0289 5401	54	37.500	58,00	35,65
0289 6001	60	46.000	67,70	41,45
0289 6601	66	57.000	88,05	50,75
0289 7201	72	70.000	96,60	58,35
0289 7801	78	84.000	109,50	67,70

Grummet with a sling structure made by a special sewing technique. Pls inquire !



article. No.	nominal rope diameter mm	lifting capacity per piece when vertical kg	basic price per 1 m L **EUR**	price per any add. 0,5 m **EUR**
0290 2401	24	9.000	23,60	17,20
0290 2701	27	11.500	24,75	17,75
0290 3001	30	14.000	26,85	19,50
0290 3301	33	17.000	30,10	21,85
0290 3601	36	20.000	32,25	23,85
0290 3901	39	23.500	35,45	26,15
0290 4201	42	27.000	44,05	30,05
0290 4801	48	35.500	51,55	35,65
0290 5401	54	45.000	61,20	43,55
0290 6001	60	55.500	74,05	48,25
0290 6601	66	68.000	96,60	58,80
0290 7201	72	84.000	107,35	67,65
0290 7801	78	100.000	109,50	78,80

Shackle "Wide body" with an increased radius in the shackle bow

article No.	lifting capacity in t	bolt diameter. mm	inside width mm	for max. rope ø	weight kg/piece	stirrup width mm	price per piece **EUR**
0321 9075	75	70	105	30	45	120	1222,00
0321 9125	125	80	130	36	73	150	2020,00
0321 9150	150	95	140	42	125	170	3032,00
0321 9200	200	105	150	51	227	205	3710,00
0321 9250	250	121	170	60	235	240	4382,00
0231 9300	300	134	185	66	368	265	5610,00
0321 9400	400	160	220	80	472	320	
0321 9500	500	180	250	85	614	340	
0321 9600	600	200	275	92	831	370	
0321 9700	700	215	300	100	1100	400	
0321 9800	800	230	325	105	1358	420	
0321 9900	900	250	350	110	1550	440	
0321 9010	1000	270	380	115	1824	460	
0321 9012	1200	300	430	132	2260	530	

On inquiry!

Rope suspension of 1 leg DIN EN 13414, rope strength class 1770

DoAs

Dolezych are in a close contact with professional associations and are meeting all safety requirements.

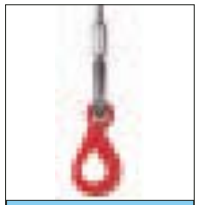
Clamps are marked according to regulations. You are obtaining lifting appliances with which your slinging personnel may work reliably and with no risk. We deliver our slinging ropes in their flexible execution of 6 x 37 + FC or 6 x 36 + FC not only in the diameter of 14 mm up, but already starting with 12 mm. Please compare, when you are purchasing! A plus for Dolezych!

Terminal connections

Please choose for one up to four leg suspensions among the following hooks:

eye hook grade 80

SIKA snap eye hook


self closing eye hook YOZ

wide opening-hook

The opening hook without security is not allowed to be used in the filed of buildings, pls. compare with BGR 500, pos. 2.8
The application of these hooks is accepted only under warm conditions!

Position of sling Operator:
Never stay under a hanging load, in the range of its swing, between loads to be lifted together or endangered by falling down!

Single cord suspension

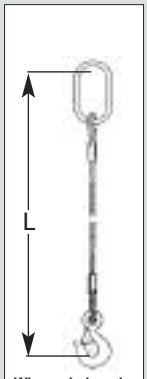
Please complete the art. No. with the rope Ø ".."

eye hook grade 80

SIKA snap eye hook

self closing eye hook YOZ

opening hook YOW



When ordering, pls. specify of the measure L =effective length and of article No.

lifting capacity at angle of inclin. 0°	nominal ø of rope mm	price per 1m of effective length article No. 0218..01 EUR	article No. 0220..01 EUR	article No. 0226..01 EUR	article No. 0227..01 EUR	price additional suspension m EUR
700	08	21,40	24,80	46,15	25,45	1,30
1000	10	24,20	27,35	48,55	27,85	1,80
1500	12	29,35	31,00	56,45	41,75	2,75
2000	14	34,20	37,10	60,45	46,80	3,45
2700	16	50,00	52,15	79,45	61,90	4,10
3150	18	62,00	67,30	86,50	91,40	4,90
4000	20	71,85	81,95	121,45	98,50	5,70
5000	22	92,00	96,80	130,65	107,60	6,75
6300	24	105,10	111,70	146,00	129,15	7,85
7000	26	139,05	154,20	216,40	166,65	9,20
8000	28	174,05	182,55	235,40	211,65	10,60
11000	32	266,70	274,50	429,90	268,55	13,80
14000	36	-	348,50	510,20	342,55	17,40

Please complete the article No. with the rope's diameter ".."

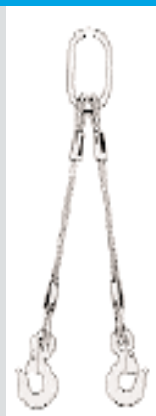
Rope suspension of 2 legs DIN EN 13414, rope strength class 1770

DoAs

Suspension with master links of special sizes – pls. inquire!

Double leg suspension

Please complete the art. No. with the rope Ø ".."

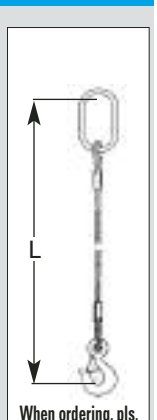


eye hook grade 80

SIKA snap eye hook

self closing eye hook YOZ

opening hook YOW



When ordering, pls. specify of the measure L = effective length and of article No.

lifting capacity in kg at angle of inclination 0-45°	45-60°	nominal ø of rope mm	price per 1 m of effective length article No. 0218 . . 02 EUR	article No. 0220 . . 02 EUR	article No. 0226 . . 02 EUR	article No. 0227 . . 02 EUR	price additional suspension m EUR
950	800	08	37,85	45,90	87,70	46,45	2,50
1400	1100	10	42,65	48,70	92,55	51,25	3,55
2100	1700	12	53,35	57,55	108,35	81,10	5,45
2800	2200	14	67,80	74,45	121,20	94,00	6,90
3800	3000	16	90,55	94,85	149,40	114,50	8,15
4400	3500	18	109,10	119,55	168,85	133,80	9,70
5600	4500	20	128,85	148,95	228,05	182,10	11,40
7000	5600	22	180,10	194,60	262,55	206,35	13,45
8800	7000	24	216,75	225,35	293,05	247,20	15,65
9800	7800	26	285,75	316,15	440,55	341,00	18,35
11200	9000	28	365,00	366,35	472,10	369,95	21,20
15400	12300	32	569,60	549,60	832,90	510,20	27,55
19000	15700	36	-	677,30	987,45	665,35	34,70

Please complete the article No. with the rope's diameter ".."

The marking of the suspension is embossed on a steel plate: with the Ø of rope, with number of legs and data regarding lifting capacity for the acceptable angle of inclination. Additionally the Dolezych logo and the CE-mark.
Load capacity marking according to BGR
...a must for your safety
...at Dolezych a serial production

article No. 0399 9999 price **EUR** 2,50

Example of order:

You would like to order:
1 piece rope suspension, 2 legs with an eye hook,
rope Ø 14 mm, 2 m of usable length.

And so is your order:
1 piece art.No. 0218 1402
2 m effective length.

The data on lifting capacity base on DIN EN 13414-1 in co-ordination with the branch association ropes and lifting appliances.

Rope suspension of 3 legs with safety hook DIN EN 13414, rope strength class 1770

DoAs

The clear width of master link should be 20% wider than the profile of crane hook on which the master link is relaxing.

Dolezych are in a close contact with professional associations and are meeting all safety requirements.Clamps are marked according to regulations. You are obtaining liftimh appliances with which your slinging personnel may work reliably and with no risk. We deliver our slinging ropes in their flexible execution of 6 x 37 + FC or 6 x 36 + FC not only in the diameter of 14 mm up, but already starting with 12 mm. Please compare when you are purchasing ! A plus for Dolezych!

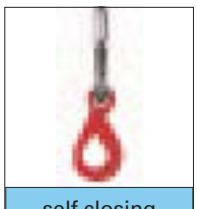
Terminal connections

Please choose for one up to four legs suspensions among following hooks.

The wide opening hook without a security is not allowed to be used in the field of building,pls.compare with BGR 500,pos.2.8.
The using of these hooks is accepted only under warm conditions.

eye hook grade 80

SIKA snap eye hook



self closing eye hook YOZ

opening hook YOW

Triple leg suspension

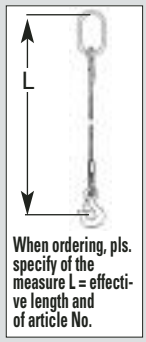
Please complete the art. No. with the rope Ø ".."

eye hook grade 80

SIKA snap eye hook

self-closing eye hook YOZ

opening hook YOW



When ordering, pls. specify of the measure L = effective length and of article No.

lifting capacity in kg at angle of inclination 0-45°	45-60°	nominal ø of rope mm	article No. 0218 . . 03 EUR	article No. 0220 . . 03 EUR	price per 1 m of effective length article No. 0226 . . 03 EUR	article No. 0227 . . 03 EUR	price additional suspension m EUR
1450	1050	08	64,95	72,80	140,95	79,00	3,75
2100	1500	10	75,05	85,35	164,05	123,15	5,35
3200	2300	12	87,90	95,85	172,05	131,25	8,15
4200	3000	14	110,10	120,85	190,95	150,10	10,35
5700	4000	16	142,90	151,15	226,95	180,50	12,20
6600	4700	18	160,85	177,60	251,55	199,00	14,55
8400	6000	20	189,95	221,25	339,90	271,05	17,05
10500	7500	22	311,35	334,50	436,10	367,30	20,20
13200	9400	24	354,05	379,70	481,00	412,50	23,45
14700	10500	26	452,15	504,35	690,95	541,65	27,55
16800	12000	28	597,35	634,85	793,50	644,35	31,75
23000	16500	32	762,95	856,00	1322,15	822,00	41,30
29000	21000	36	-	873,85	1339,05	976,70	52,10

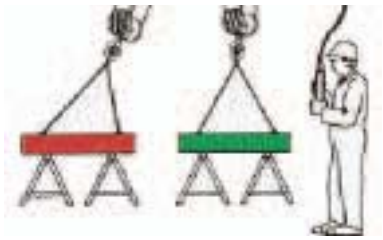
Please complete the article No. with the rope's diameter ".."

Rope suspension of 4 legs with safety hook DIN EN 13414, rope strength class 1770

DoAs

In case of multi leg suspensions the angle of inclination must not exceed 60°!

Pay attention for danger of swinging load!



Four leg suspension

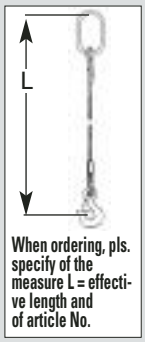
Please complete the art. No. with the rope Ø ".."

eye hook grade 80

SIKA snap eye hook YOZ

self closing eye hook YOW

opening hook YOW



When ordering, pls. specify of the measure L = effective length and of article No.

lifting capacity in kg at angle of inclination		nominal ø of rope	price per 1 m of effective length				price additional suspension m
			article No. 0218 . . 03	**article No.** 0220 . . 03	**article No.** 0226 . . 03	**article No.** 0227 . . 03	
0-45°	45-60°	mm	**EUR**	**EUR**	**EUR**	**EUR**	**EUR**
1450	1050	08	82,75	91,50	182,45	99,90	5,05
2100	1500	10	92,20	100,90	191,90	129,95	7,10
3200	2300	12	113,50	122,05	223,35	169,15	10,85
4200	3000	14	139,95	152,80	246,30	191,80	13,80
5700	4000	16	184,60	202,05	301,65	232,35	16,30
6600	4700	18	208,15	229,00	347,95	257,60	19,40
8400	6000	20	278,65	287,30	444,50	353,60	22,75
10500	7500	22	375,50	384,80	505,10	428,60	26,90
13200	9400	24	422,35	413,40	520,25	518,35	31,30
14700	10500	26	555,05	634,40	883,10	684,10	36,70
16800	12000	28	788,25	737,90	899,90	701,10	42,35
23000	16500	32	1195,80	1132,25	1659,40	1014,35	55,05
29000	21000	36	-	1792,55	1785,35	1141,20	69,40

Please complete the article No. with the rope's diameter ".."

Wire rope adapter slings

DIN EN 13414, Rope strength class 1770

DoAs

The size of the eye and hook have to going together. If the eye is too small, the flanking weld could get broken and the load could fall down.

The wire rope adapter slings with a sling dimension of minimum 15 x d are suitable for lifting with big crane hooks.

Wire rope adapter slings

Please complete the art. No. with the rope Ø "‥"

		adapter slings with eye hook with security YOS	adapter slings with self closing eye hook YOZ	adapter slings with swivel hook with security YOSW	adapter slings with self closing swivel hook YOZW
lifting capacity in kg at angle of inclination = 0°	nominal ø of rope mm	price per piece **EUR**			
		article No. 1218 . . 01	**article No.** 1220 . . 01	**article No.** 1226 . . 01	**article No.** 1227 . . 01
950	08	27,95	55,25	64,95	84,00
1400	10	33,10	65,30	78,50	100,10
2000	12	38,10	69,90	82,60	105,00
2800	14	46,50	88,35	105,70	125,95
3800	16	72,05	131,10	144,70	187,05
5000	20	93,05	150,60	161,95	204,30
7000	22	132,80	229,65	242,00	328,55
8800	24	219,10	324,90	328,30	348,90
9800	26	223,50	349,00	362,60	474,45

Please complete the article No. with the rope's diameter "‥"

Wire rope concrete slings

rope strength class 1770

DoAs

Concrete slings

The thread part has been made of precision steel in bare execution. The rope sling consists of a full steel rope with galvanized surface.

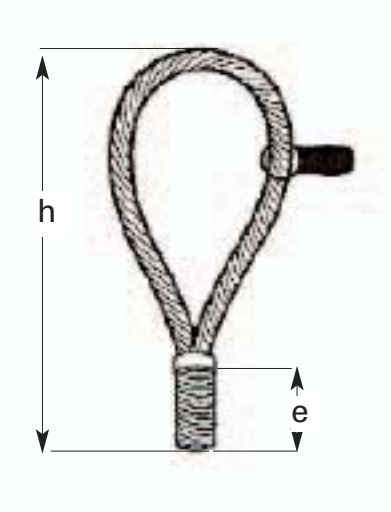
DoAs concrete slings with thread are meeting in any respect the requirements of branch associations (ZH 1/17). For installation you have to factor in the supplied installation- and operating instructions.

Please take considerable care of:

- that the thread is completely screwed in
- that the dirty thread passages of the thread anchor and of rope sling should be cleaned
- Please pay attention to the discar ding critics

Steel rope concrete slings

lifting capacity in kg at angle of inclination =0°	metric thread	article No.	dimensions in mm h	e	packing unit per piece	price per piece EUR
500	M12	1312 0155	155	22	25	8,70
800	M14	1314 0155	155	25	25	8,90
1200	M16	1316 0155	155	27	25	12,15
1600	M20	1318 0190	190	31	20	14,50
2000	M22	1320 0215	215	35	20	17,20
2500	M24	1324 0255	255	43	20	19,75
4000	M30	1330 0300	300	56	10	30,95
6300	M36	1336 0360	360	68	10	59,50



The Dolezych poster with lifting capacities of lifting appliances

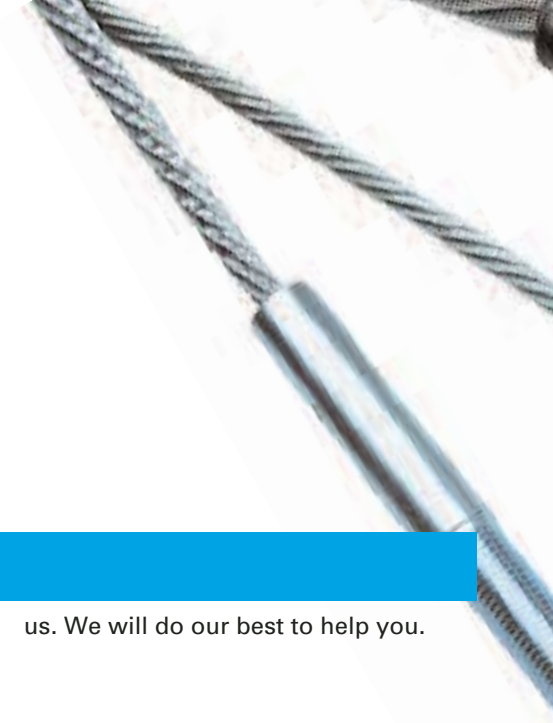
Safety when lifting loads

The poster of A1 size informs the operator in details the current lifting capacities of lifting appliances.

Additionally there are advices for operator-practice: sharp edges, application under heat etc. A must for every user !

article No.	price per piece
0395 5555	**EUR** 2,50

Variants of head and end-types for sling ropes



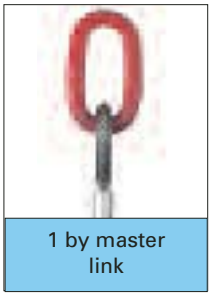
Variants of head and end fixtures

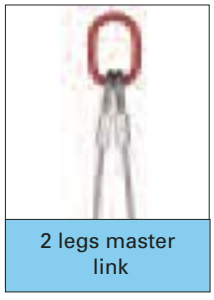
These end-terminations are used to specify sling ropes in place of action or they could be variable equipped in case of changing types of slinging.We manufacture confectionated ropes with these plates for the use of machinery element. If you require further types which have not been shown below, just ask us. We will do our best to help you.

Variants of head fixtures

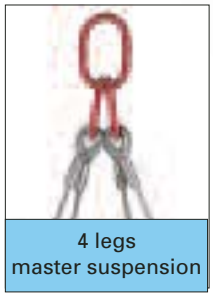
sling

thimble

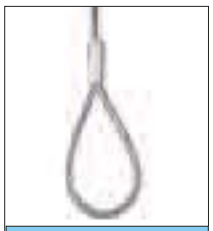

1 by master link

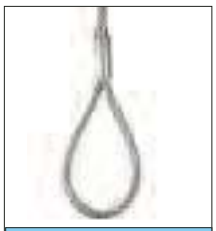

2 legs master link

3 legs master suspension


4 legs master suspension

Variants of end-types

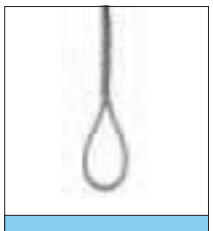

cylindrically pressed in sling


long conically pressed in sling

cylindrically pressed thimble

spliced thimble

the Flemish eye thimble


spliced sling

the Flemish eye sling

eye hook GK 5

SIKA hook

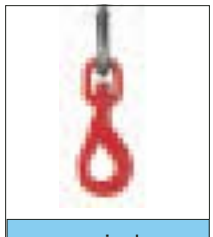
eye hook GK8

end link

shackle

opening hook YOW

self closing eye hook YOZ


swivel hook

End terminations For standing and running ropes

End terminations for machinery elements

screw terminal

eye terminal

fork terminal

endpressed clamp

swage spliced full thimble

taluril spliced full thimble

spliced full thimble

turnbuckle

lifting eye nut

turnbuckle

lifting

Potting

slopped fork socket

slopped stirrup-rope socket

slopped stap rope pear

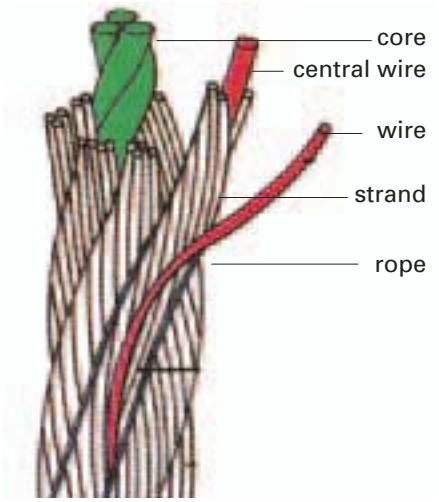
slopped wire rope pear

Steel ropes for any form of application

DoDra

Steel ropes for any form of application

The steel rope is a high quality element of machinery which is manufactured to the following principles:
Several wires are stranded helically around a core wire. When production ends at this stage, a spiral rope is ready and it can be used as a tightening rope or starting cable. For the use as a machine element subjected to bending stress, required is a one or multi-layer round rope strand. The described wire composition creates the strand which is helically wound around a core.



The number, thickness and order of the wires, as well as the selection of strands decide on the strand geometry, on rope construction , on rope's diameter and its flexibility. Different scopes of application require special qualities: strength, flexibility and wear resistance have to be respectively combined. It is important to select steel wire ropes according to their purpose. E.g. a rope of many thin wires is very flexible but also very sensitive to external wear; on the other hand a rope of a few thick wires is more wear resistant , but at the same time less flexible and therefore it needs e.g. coils of bigger diameter. The rope Ø, its assigning to the rope and the acceptable tolerances are in general fixed by the DIN EN 12385. However, the market requires more and more specialized ropes and their construction results of a computerized design based on factory standards. The better section geometry of these specialized ropes, as compared with the DIN ropes, increases both the breaking load as well as extends their life.

DoDra Easyway... the easy way to the right rope

guided — **Load** — **not guided**

- in case of more rope cords and smaller lifting levels (< 1000 d)
- in case of application in pairs of right and left moving ropes

- in case of the application of one cord
- in case of more rope cords at high lifting levels (> 1000 d)

low tension

standard ropes

DoCasar Stratolift
DoCasar Stratoplast
DoDiepa P 825
DoRope SR 919 P
DoRope W 825 P
DoRope DP 8
DoRope DD 9

no rotation

core coiling (regular ropes)

DoCasar Starlift
DoDiepa 1315
DoRope KSZ
DoRope W 357

more layer coiling

DoRope SR 15

Compact (higher breaking load, rope surface smoothed)

DoCasar Turbolift **DoCasar** Eurolift
DoCasar Turboplast
DoDiepa PZ 371
DoDiepa SKZ 8
DoDiepa 915 CZ
DoDiepa 1315 CZ
DoRope SR 18 V

Special application e.g. drills:
DoCasar Powerplast, **DoDiepa** Super 3, **DoDiepa** Super 4
... for scraper systems **DoDiepa** Z 299

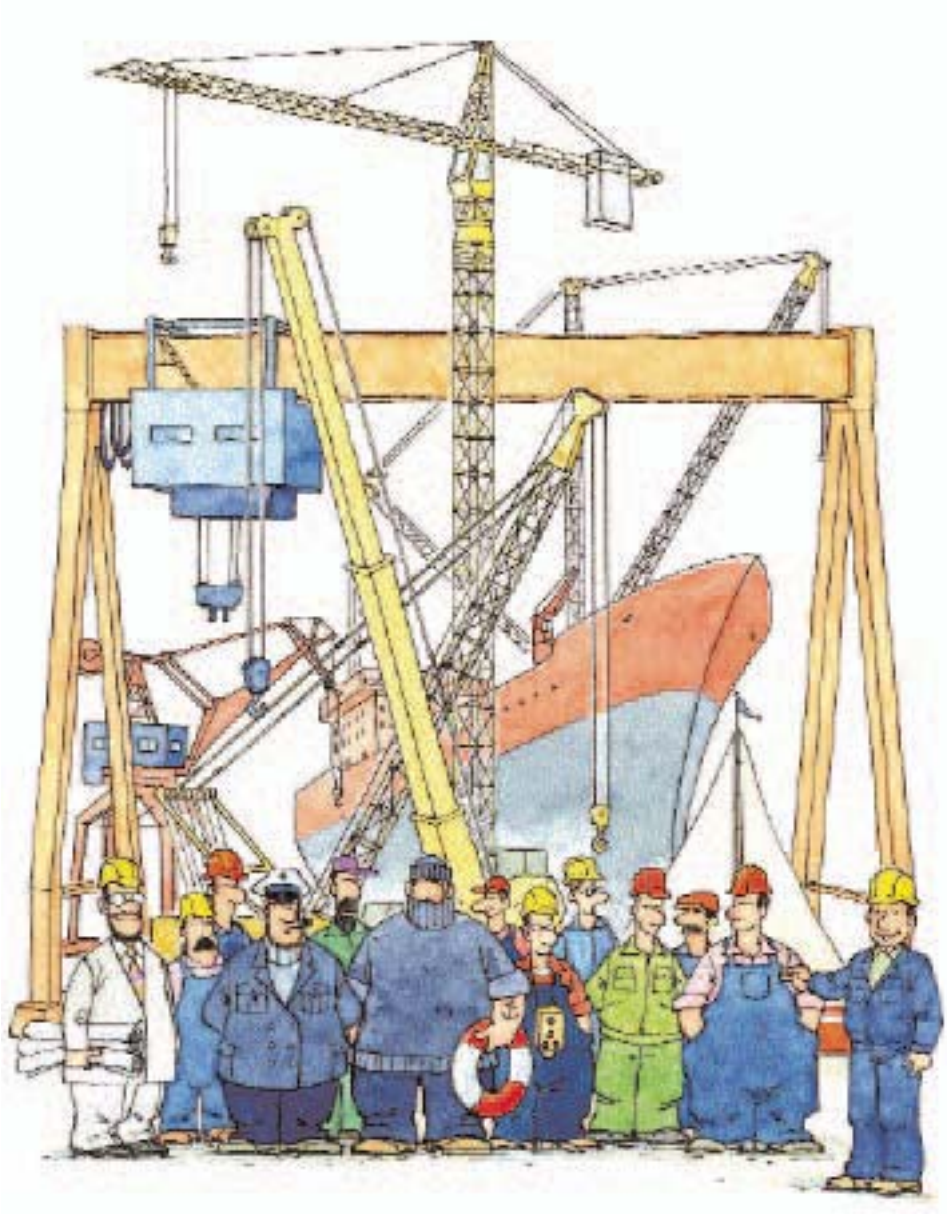
The direction and type of lay

The direction of lay indicate the winding lines of external strands. The difference is: right hand ropes "Z" and left hand ropes "S". Apart from the direction of lays the ropes differ also by the type of lay.

Regular lay rope

The wires in the strands have a direction contrary to the direction of strands in the rope.

Steel ropes for any form of application



Conformable rope lay

The wires in the strand are running in the same direction as rope strands.

The drawings show the lay directions and lay types by applying letters "Z" and "S". The small "s" or "z" indicate the lay direction of wires in the strand, the big "S" or "Z" indicate the lay direction of strands in the rope. The combination of all four possibilities is the type of lay.

In case the orders will not specify the lay requirements, Dolezych will supply, as a matter of principle, the right hand regular lay rope "sZ".

a) right hand (sZ) | b) left hand (zS) | c) right lay (zZ) | d) left lay (sS)

regular lay rope | **Lange lay rope**

Inserting thimbles

One distinguishes between fiber core (FC = Core Fiber acc.to CEN standard) and steel core (IWRC = Independent Wire Rope Core)

1. The fiber core

The typical in the past hemp core is rather not in use anymore because it is relatively soft and is not able to resist adequately the pressure from outside, and moreover – hemp is too expensive for a rope core. Today, the rope cores consist predominantly of hard fibers (manila or sisal). A sufficient support effect can be achieved when correct proportions are applied. They are treated with water resisting and decay hindering oil which protects the rope against corrosion from inside. Also polyester and polypropylene are applied as fiber materials. Their advantage is their resistance against weather conditions. All fiber cores act as the ropes' fat collectors. The rope gets thinner under load and the resulting pressure on the core extracts fat which lubricates the rope.

2. The steel core

The task of the steel core is to better support the surrounding strand, the structure gets more compact. The metallic diameter gets bigger which results in higher breaking strength, as compared with fiber cores. In case of a thin rope diameter, the steel core consists e.g. of only one core wire. This leads in case of bigger rope diameters to a possibly intentional rope rigidity. A steel strand core (SEL) is usually standard in case of ropes of rust-proof qualities (thimble strand). However, in order to secure the optimum function, this strand should be bigger in diameter than the external strands. The steel rope core IWRC is particularly suitable for the rope. Its construction and diameter are particularly matching the external strands. Ropes with fiber cores may be applied in a temperature of up to 100°C while ropes with steel cores – up to 400°C.

Plastic interlayers

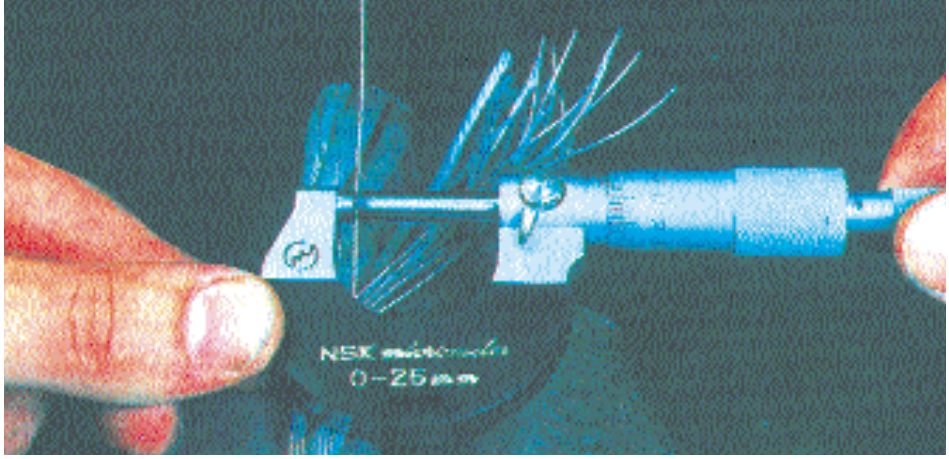
Specialized ropes have more plastic interlayers.

The advantages:

- very silent run
- no contact between the core and the external strands
- reduced creation of baskets
- replaced lubrication
- corrosion protection
- bigger rope stability under its installation

Steel ropes for every application

DoDra



Moulding
The production starts in a very conventional way. Eventually the strands and possibly also the ready made rope resp. only the ready made rope are subjected to plastic pressure moulding by specialized machinery. This results in a decrease of rope diameter – the surface is becoming smoother.
advantages of strand moulding: the

conventional rope

individual wires' surfaces of contact are becoming more "flat" i.e. the coats and the surfaces of contact become bigger. The moulded ropes have a higher breaking strength (core filler factor) than the comparable not moulded ropes.

moulded rope

They have a higher abrasion resistance, because the outer wires are more "flat" when running.

Poor length of lay - poor tension

A rope is of poor tension (also called poor lay) when its strands and wires, after untying the bonding of strands at their end, do not protrude of the rope joint at all or only a little. A poor tension rope has no tendency to create kinks, it just lies "dead". Manufacture of poor tension ropes is an effect of specialized processing during the stranding process.

Free resp. poor torsion

A rope is of free resp. poor torsion when under the influence of a dead load on the longitudinal rope axis, it does not revolve at all around its longitudinal axis or only a little. A rope is of free resp poor torsion depending on its geometry and the type of its stranding (a rope consisting of several layers of round strands, a rope of flat strands, a woven rope and other special structures).

Storage

Conditions of adequate rope storage
Steel wire ropes for running and stationary purposes are to be checked in regular intervals, possibly prior to every use and if necessary – repaired. Usually the checks are in form of visual inspections which are necessary to identify in time places of wear. DIN standards and work safety regulations are warranting the priority to safety.dry

- protected against dust
- under room temperature or cool
- protected against mechanical damages (especially at unloading for storage or loading after the storage)
- by avoiding contact with the ground (ground humidity)

Installation

- When ropes are going to be stretched, first their ends have to be bound (possibly by a soft steel wire/ iron strand or by a respective adhesive tape)
- Uncoiling as shown on the pictures below
- When pulling, they should be protected against sharp edges of construction elements (a.g. by means of edge protections)
- For the purpose of the first assembly, a thin pilot rope should be used which should be connected to the rope to be assembled (as described under 1) and 2).

For assembly of torsion free ropes, also the pilot rope should be torsion free (e.g. torsion free ropes or plastic ropes of three strands). When applying for assembly purposes pilot ropes of 6 or 8 strands of not torsion free structures, the lay of both ropes must be comformable. In case of rope exchange, the rope to be removed usually is used as the pilot rope.

For this reason the following instruction on installation refers both to the first assembly and to the rope exchange. Connection of the pilot rope (old ropes) with the new rope can be made in different ways:

1) Proceeding at assembly of torsion free structures:

To the end of each: the assembly rope and the new rope are to be welded half-chain links. Then these half chain links are connected by means of a strand cord (which should be strong enough to resist the tension and gravity load) of which the ends are to be wound together. Nice looking is a rope connection by means of 2 rope grips, because the assembly proceeds downer and easier. When additionally a swivel will be applied between the 2 rope covers, then a transfer of torsion from the old rope to the new rope being assembled , is eliminated.

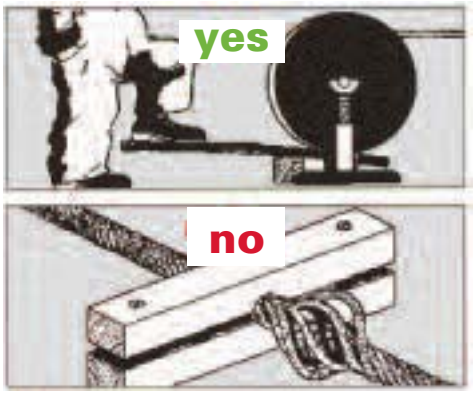
2) Proceeding at assembly of not torsion free structures:

In case that in the rope, to be disposed, earlier damages are possible because of torsion, the above described proceeding with welding on of two chain half links with a strand is recommendable, because the torsions of the old rope may have repercussions in the strand without being transferred to the new rope. On the other hand the strand resists the new rope so much that turning moments conditioned by the structure can not lead to undoing.
By applying a swivel, such a resistance would not exist, the rope could undo itself and become defect. When damages resulting of torsion are not expected in the old rope, the ends may be welded obtuse together or via 2 rope grips, or via one rope grip (the rope ends are to be pushed to each other as close as possible in order to avoid a break of rope grip caused by torsion. Attention: ropes of comformable lay are not allowed to be assembled by applying
a swivel connection or strand connection, they should be instead connected by means of obtuse end to end welding! The lay direction must be comform!
When a rope of comformable lay is assembled , one should note that rope grips, despite tightening them by string, may screw on the rope like a screw nut. For this reason, sections of rope which are kept by rope grips should be taped by a self adhesive tape.

The above hints regarding wiring are based on the experience of many users. They are of basic nature and specific exceptions can not be excluded. With respect to special rope types even quite contrary suggestions may apply.

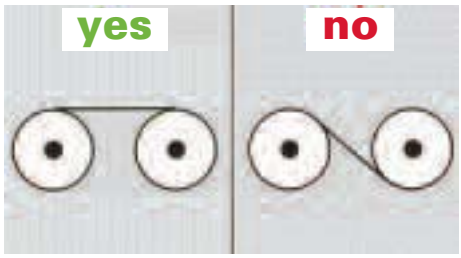
Drum coiling

Drum coiling should be carried out at a tension of 1 – 2% of minimum breaking load. Stretching is of decisive importance in case of drum coiling of several rope layers – when loaded, the upper layers might drive under the lower rope layers and damage the rope.



Should the driven in layer get jammed, this might result in a change of coiling direction: e.g. a moving up load may be rapidly lifted and vice-versa. The necessary tension will be achieved already when the revolving drum will be braked by a board. Never brake the rope itself by jamming, as this could result in kinks and the rope may get deformed.

- During the factory winding of a rope, it is given a coiling direction. This " direction of bending" should be definitely maintained during the assembly.



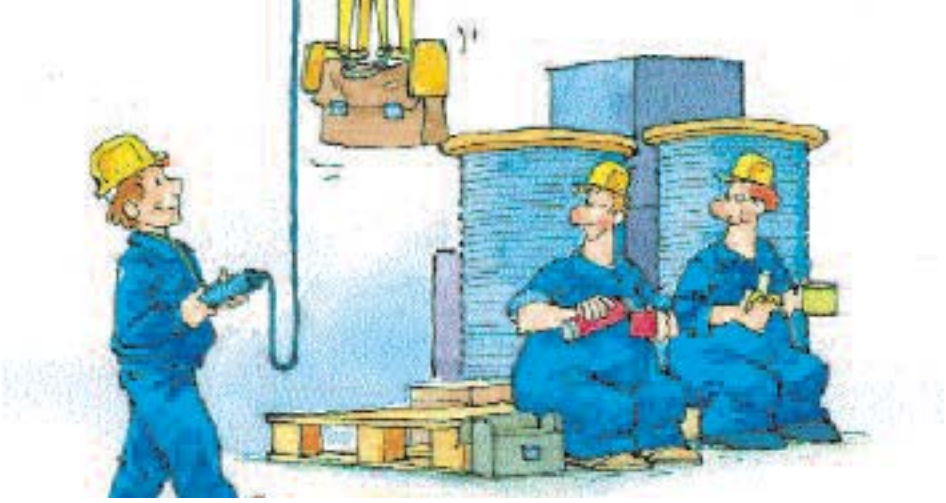
- During the assembly keep the site clean (e.g. sand may adhere to the means of lubrication which may lead to premature damages to the rope).
- Rope should always be uncoiled (Rope torsion leads to changes in its length and thus to the creation of kinks)

Running in

Between assembly and commissioning the rope should several times undergo trial liftings with part loads to let the rope elements "get settled". The common practice of running in by applying overload directly after the assembly is considered problematical among specialists. It should be limited to the necessary overload trial.
When in case of a coil consisting of several layers, only one layer is working, once every day the rope should be moved on its whole length.

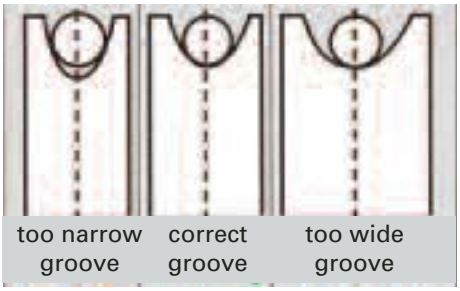
Steel ropes for every application

DoDra

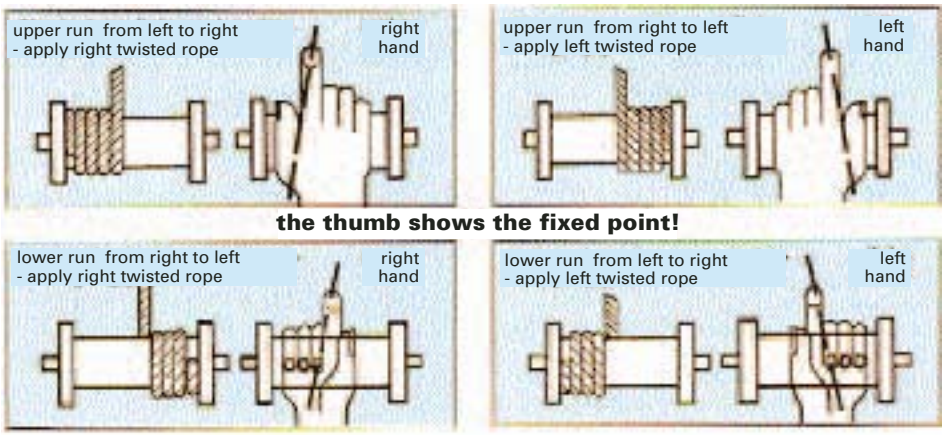


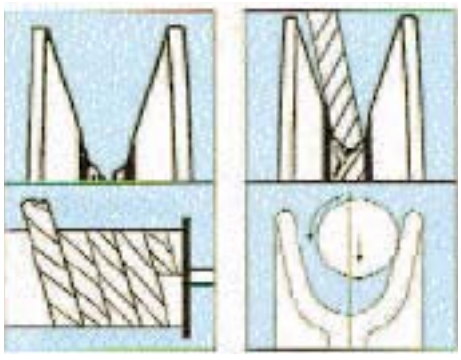
Checks

- Check the correct rope coiling in the grooves of drum / drive wheel. The correct groove diameter according to DIN 15020 = 1,05 x d (= nominal rope diameter). The optimum groove diameter is ca. 1,06 – 1,08 x d.



- When several ropes are pulled, pay attention that all ropes will be pulled with equal strength.
- Check the groove bottom for damages (too deep groove are damaging a new rope).
- Check the deflection angle – max.4° for not torsion free, max. 1,5° for torsion free ropes.
- Bigger deflection angles cause that the rope reaches first the flank and then, under the coiling pressure, glides into the groove. The results is forcible coiling and the risk that the rope will jump out of the reel.
- To the right revolving drum – "S" - left lay direction of strand
- To the left revolving drum – "Z" - right lay direction of strand
- When coiling more rope layers, the rope lay direction should be selected depending on the position, which prevails during the rope's work.
- Another rule says: coiling right - left lay direction of strand, "S" coiling left–right lay direction of strand, "Z"


upper run from left to right
- apply right twisted rope
right hand
upper run from right to left
- apply left twisted rope
left hand
the thumb shows the fixed point!
lower run from right to left
- apply right twisted rope
right hand
lower run from left to right
- apply left twisted rope
left hand



Which regulations are in force?

Depending on rope application, very different standards or internal stipulations of branch associations must be taken into consideration. There does not exist a single standard regarding specific checks to be applied to all ropes. The DIN standard collection is quite extensive; means of slinging are covered by DIN EN 13414 with standards for e.g. pressing clamps - DIN EN 13411-3, for splices - DIN EN 13411-2, for the "Flemish eye" – DIN EN 13411-3.

To rope drives refer e.g. DIN 15020 with VDI 2358. Results of checks are to be entered with date into the crane resp. lift book or into the files of the means of slinging.

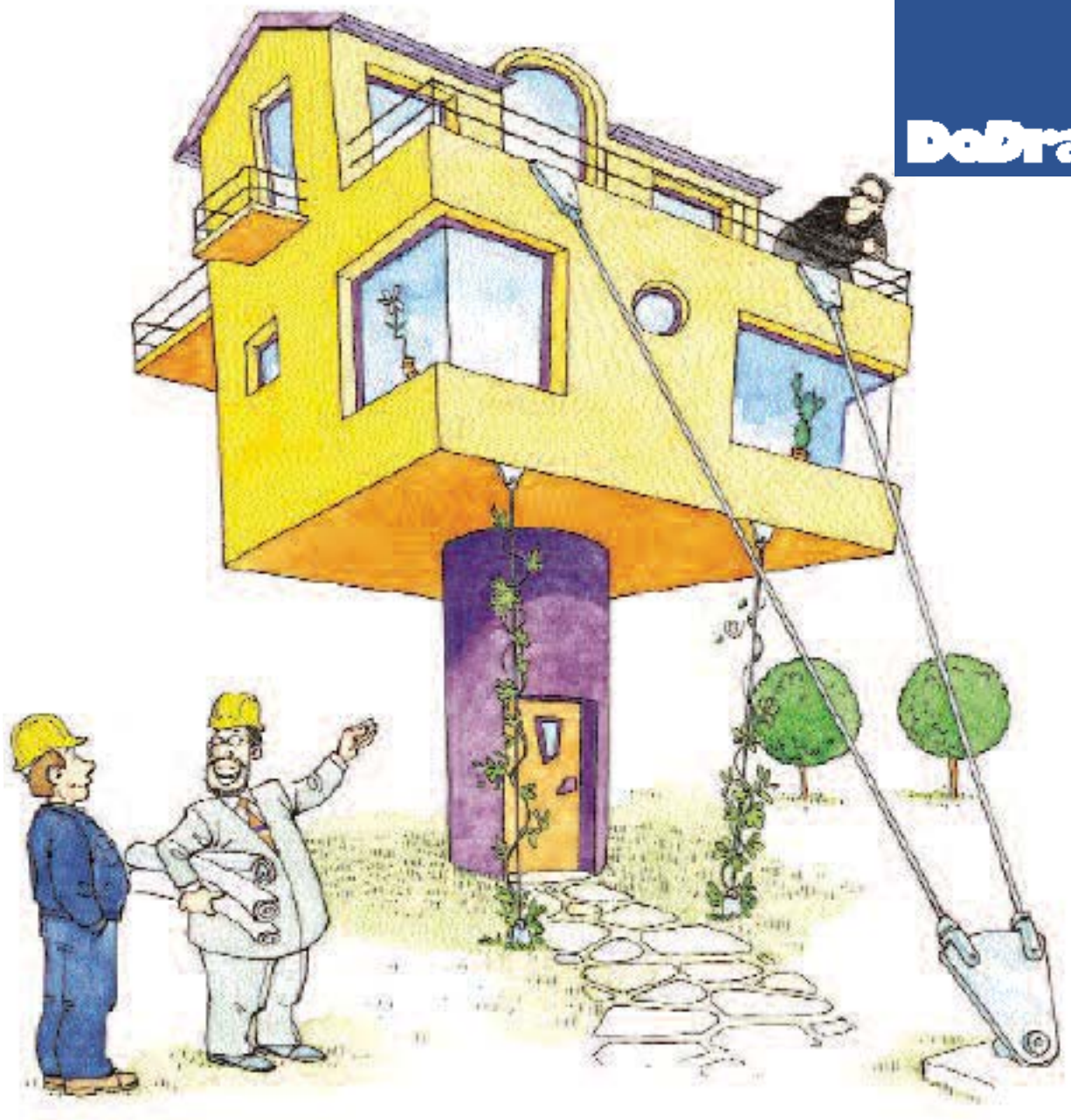
What is attention to be paid to?

- End connections are to be checked: filling compounds should be, as a matter of principle, replaced in case of wire breaks or corrosion appearing on the rope, on a rope pear clamp or rope joint box. Also after reaching the deadline for use (time limits for e.g. cable railways, as imposed by regulations, like BO Seil (rope) and BO Schlepp (trail)).
- To be checked are splices for the correct position of strands (not made loose); whether they are still twisted?
- Screw joints (screw clamps) are to be controlled in intervals; screw tightening by means of a torque wrench.
- A special attention require heavy duty rope sections

Steel wire ropes for running and stationary purposes are to be checked in regular intervals, possibly prior to every use and if necessary – repaired. Usually the checks are in form of visual inspections which are necessary to identify in time places of wear. DIN standards and work safety regulations are warranting the priority to safety.

Steel ropes for every application

DoDra



- An increase susceptibility due to changing tension and corrosion appears at places of rope downening (thimbles, clamps, terminals)
- Wire breaking hazard due to increased number of changing bends takes place in the range of compensation reels
- Increased wear on rope drums due to abrasion
- Loss on lubricants in the range of aggressive media resp. at temperatures exceeding 50° may deteriorate work conditions of a rope

Rope wheels, driving wheels

- Regular checks for smooth running, as heavy running wheels increase the wear
- Measuring of groove bottoms – the optimum groove diameter = nominal rope diameter plus 6 – 8%
- Paying attention to an adequate wall thickness, entering into the crane book reports on places of wall side wear with indication of material necessary for prompt exchange or repair
- Replacing resp. repairing grooves with rope impressions

Lubrication

Especially in case of running and stationary ropes:

- Ropes should be lubricated when necessary (by hand or by means of automatic devices)
- Lubrication, preferably by oil, of ropes running on rope wheels
- Oiling, if possible, on bends

because in such places the lubricant can better penetrate inside the rope. Attention: grease may damage the rubber lining of rolls; take compatibility into consideration!

- Ropes which do not run via the rope wheels are to be greased, because, as experience shows, grease keeps better on the surface
- Observe compatibility with genuine lubricants.
- Ropes should be regularly cleaned; grease and dust create deposits which prevent own lubrication (because no grease can get out from inside the rope through the closed rope crevices).

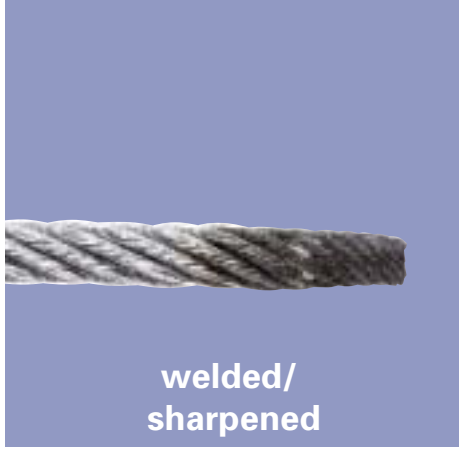
The adequate greases are:

- DoGrease F – rope wire grease
- DoGrease – rope wire spray
- DoGrease O – rope wire oil

Steel wire ropes rope strength class 1770 DIN EN 12385

DoDra

smooth, tied up (standard)



welded/ sharpened

This is the way for ording correctly≠:

When ordering, please complete, when necessary, the last position of article number as follows: bare = 2, galvanized. = 3

Please specify the required type of end processing, e.g. welded, sharpened or smooth.

Steel wire ropes are delivered in coils, when a drum is required – please specify ! The processed ends of delivered ropes are inside the coil.

Rope coil check made easy

Euro coin	for rope-Ø
1 Cent	16 mm
2 Cent	18 mm
5 Cent	20 mm
20 Cent	22 mm
50 Cent	24 mm
2 Euro	26 mm

Example: a 50 cent coin must fit into the groove bottom of a rope wheel to make a 24 mm rope run freely.

Example of an order:

You would like to order:
100 m of steel rope DIN EN 12385 with fibre core, rope diameter 20 mm.

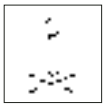
And this will be your order:
100 m art.No. 0104 2003

DoDra 607 round strand rope, 6 x 7 + fibre core (FC), class 6 x 7

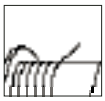
guy rope

nominal-rope Ø mm	wire number for discarding	weight kg/m	minimum breaking strength kN	article No.	galvanized price per meter EUR
2	42	0,0143	2,35	0101 0203	0,28
3	42	0,0322	5,29	0101 0303	0,36
4	42	0,0572	9,41	0101 0403	0,46
5	42	0,0894	14,70	0101 0503	0,58
6	42	0,1290	21,10	0101 0603	0,72

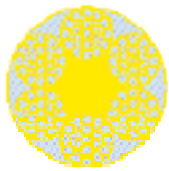
DoDra 619 round strand rope, 6 x 19 + fibre core (FC), class 6 x 19



sling rope

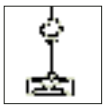


hoist winch rope



nominal-rope Ø mm	wire number for discarding	weight kg/m	minimum breaking strength kN	article No.	galvanized price per meter EUR
3	114	0,0311	4,9	0102 0303	0,58
4	114	0,0554	8,7	0102 0403	0,76
5	114	0,0865	13,6	0102 0503	0,90
6	114	0,1250	19,6	0102 0603	1,00
8	114	0,2210	34,8	0102 0803	1,34
10	114	0,3460	54,4	0102 1003	1,84

DoDra 637 round strand rope, 6 x 37 + fibre core (FC), class 6 x 37



sling rope

nominal-rope Ø mm	wire number for discarding	weight kg/m	minimum breaking strength kN	article No.	galvanized price per meter EUR
8	222	0,221	33,4	0103 0803	1,94
10	222	0,346	52,2	0103 1003	2,30
12	222	0,498	75,1	0103 1203	2,80
13	222	0,585	88,2	0103 1303	3,10
14	222	0,678	102,0	0103 1403	3,58
16	222	0,886	134,0	0103 1603	4,22
18	222	1,120	169,0	0103 1803	5,04
20	222	1,380	209,0	0103 2003	5,94
22	222	1,670	253,0	0103 2203	6,96
24	222	1,990	301,0	0103 2403	8,14

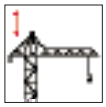
DoDra 636 WS round strand rope,6 x 36+ fibre core (FC), Warrington Seale, class 6 x 36

When ordering, please complete, when necessary, the last position of article number as follows: bare . = 2, galvanized . = 3

nominal-rope Ø mm	wire number for discarding	weight kg/m	minimum breaking strength kN	article No.	bare price per m EUR	galvanized price per m EUR
13	216	0,643	98,3	0104 130.	3,06	3,40
14	216	0,745	114,0	0104 140.	3,54	3,94
16	216	0,973	149,0	0104 160.	4,14	4,64
18	216	1,230	189,0	0104 180.	4,90	5,54
20	216	1,520	234,0	0104 200.	5,78	6,52
22	216	1,840	282,0	0104 220.	6,74	7,70
24	216	2,190	336,0	0104 240.	7,86	8,94
26	216	2,570	395,0	0104 260.	9,18	10,48

6 x 36 + steel core (IWRC)

sling rope



building crane-pendant rope

building crane-assembly rope

building crane-hoist rope

clamsbell crane-hoist & closing rope

elevator carrying rope

nominal-rope Ø mm	wire number for discarding	weight kg/m	minimum breaking strength kN	article No.	bare price per m EUR	galvanized price per m EUR
12	216	0,602	89,9	0134 120.	3,34	3,70
13	216	0,707	106,0	0134 130.	3,70	4,10
14	216	0,820	124,0	0134 140.	4,28	4,78
16	216	1,070	161,0	0134 160.	5,00	5,62
18	216	1,350	204,0	0134 180.	5,92	6,66
20	216	1,670	252,0	0134 200.	7,00	7,88
22	216	2,020	304,0	0134 220.	8,14	9,26
24	216	2,410	363,0	0134 240.	9,52	10,46
26	216	2,830	425,0	0134 260.	11,12	12,66
28	216	3,280	493,0	0134 280.	12,96	14,64

Steel wire ropes rope strength class 1770 DIN EN 12385

DoDra

When ordering, please complete, when necessary, the last position of article number as follows: bare. = 2, galvanized. = 3

Please take care that rope assemblies are only processed by a specialist-most damages to running ropes result of errors in assembly!

Duplication of rope diameter
= approx. quadruple breaking load
= approx. quadruple weight

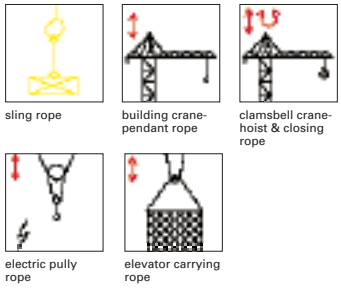
The principle for rope storage – first in – first out!

Ropes of 8 strands have a rounder surface than 6 strand structures-an advantage at a run above the rolls.

DoDra 819 S round strand rope, 8 x 19 + steel core (IWRC), Seale, class 8 x 19

nominal-rope Ø mm	wire number for discarding	weight kg/m	minimum breaking strength kN	article No.	price per meter EUR
9	152	0,344	50,0	0139 0902	2,36
10	152	0,425	59,9	0139 1002	2,58
11	152	0,514	72,5	0139 1102	2,78
12	152	0,612	86,3	0139 1202	3,12
13	152	0,719	101,0	0139 1302	3,46
14	152	0,833	117,0	0139 1402	3,90

DoDra 819 F round strand rope, 8 x 19 + steel core (IWRC), filler, class 8 x 19



nominal-rope Ø mm	wire number for discarding	weight kg/m	minimum breaking strength kN	article No.	price per meter EUR
15	152	0,979	138,0	0142 1502	4,44
16	152	1,110	157,0	0142 1602	4,92
18	152	1,410	199,0	0142 1802	6,02
20	152	1,740	245,0	0142 2002	7,14
22	152	2,100	297,0	0142 2202	8,62

DoDra 836 WS round strand rope,8 x 36+ fibre core (FC), ,class 8 x 36

nominal-rope Ø mm	wire number for discarding	weight kg/m	minimum breaking strength kN	article No.	bare price per m EUR	galvanized price per m EUR
13	288	0,603	85,5	0106 130.	3,36	3,70
16	288	0,913	130,0	0106 160.	4,48	4,98
18	288	1,160	164,0	0106 180.	5,10	5,70
20	288	1,430	203,0	0106 200.	6,10	6,84
22	288	1,730	246,0	0106 220.	7,00	7,86
24	288	2,050	292,0	0106 240.	8,28	8,95
26	288	2,410	343,0	0106 260.	9,20	10,42

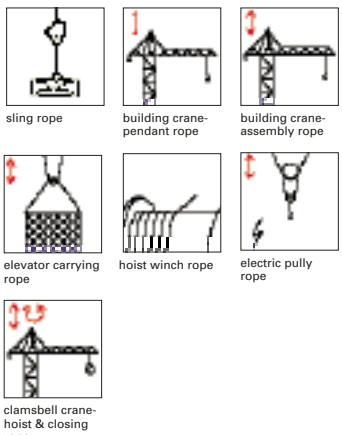
Cutting of steel wire ropes

rope-Ø mm	0-100 m price per piece EUR	101-300 m price per piece EUR	over 300 m price per piece EUR
to 4,9	2,05	2,55	4,10
5,0 - 9,9	3,10	3,60	5,10
10,0 - 19,9	4,10	5,10	7,15
20,0 - 5,9	5,10	6,15	8,20
from 26,0	8,20	15,35	18,40

Sharpening of steel wire ropes

each mm of rope Ø	price	EUR	0,40

8 x 36+ steel core (IWRC)



nominal-rope Ø mm	wire number for discarding	weight kg/m	minimum breaking strength kN	article No.	price per meter EUR
13	288	0,736	101,0	0136 1302	4,48
14	288	0,852	117,0	0136 1402	5,08
16	288	1,110	153,0	0136 1602	6,00
18	288	1,410	194,0	0136 1802	6,80
20	288	1,740	239,0	0136 2002	8,14
22	288	2,100	290,0	0136 2202	9,36
24	288	2,510	345,0	0136 2402	10,90
25	288	2,725	345,0	0136 2402	11,62
26	288	2,830	405,0	0136 2602	12,30

Special steel wire ropes

DoRope

High breaking strength is not a quality criterion- a decisive factor is rope geometry

= not rotating

	DoCasar Starlift	DoDiepa 1315	DoRope KSZ	DoRope W 357	DoRope SR 15	DoCasar Eurolift	DoDiepa 915 CZ	DoDiepa 1315 CZ	DoRope SR 18 V	DoCasar Stratolift	DoCasarStratoplast	DoDiepa P 825	DoRope SR 919 P	DoRope W 825	DoRope DP 8	DoRope DD 9	DoCasar Turbolift	DoCasar Turboplast	DoDiepa PZ 371	DoDiepa SKZ 8
building crane- hoist rope	■	■	■	■	■	■	■	■	■											
building crane-adjustable rope															■			■	■	
building crane- trolley pull rope										■	■	■	■	■	■					
building crane-assembly rope										■						■	■			■
building crane- pendant rope															■	■	■	■	■	■
mobile crane- hoist rope	■	■	■	■	■	■	■	■	■											
mobile crane- adsjustable rope															■			■	■	
mobile crane pendant rope										■	■	■	■	■	■					
container crane hoist rope										■	■	■	■	■	■		■			
container crane-adjustable rope										■	■	■	■	■	■		■			
foundry factory crane-hoist rope										■	■	■	■	■	■					
clamshell crane-hoist& closing rope										■	■	■	■	■	■		■			
clamshell crane-pendant rope										■	■	■	■	■	■		■			
clamshell crane-adjustable rope											■		■		■		■	■		
cable crane- hoist rope											■	■	■	■	■		■	■		
cable crane- pull rope											■	■	■	■	■		■	■		
deckcrane- adjustable rope											■		■		■		■	■	■	
floating crane- hoist rope	■	■	■	■	■	■	■	■	■											
floating crane- adjustable rope															■		■	■	■	
offshore-crane- hoist rope										■	■	■	■	■	■			■		
offshore crane- adjustable rope																		■	■	
floating grab dredger-hoist& and closing																■			■	
loating grab dredger- pendant rope																			■	
high- and deep spoon dredger-boom rope											■	■	■					■		
high-and deep spoon dredger-boom rope											■	■	■					■		
dig tub-hoist rope											■	■	■					■		
dig tub-adjustable rope											■	■	■					■		
buk material-,charger/discharger,hoist-,closing-,grabbing											■	■	■					■		
bulk material-,trolley pull-and balance rope	■	■	■	■	■	■	■	■	■									■		

Dolezych have for every purpose the optimum structure available and are giving you below a survey of non-tota-ting and preformed special structures.

The application of special steel wire ropes is not connected with extra expenses, as they represent longer life and lower assembly costs, because they have to be assembled on a crane less frequently.

Please take care that rope assemblies are only processed by a specialist!

Special non-rotating steel wire ropes single-layer spooling

DoRope

Violent external torsion because of groves of wheels / drums, too big deflection angles or errors at assembly are changing the turning moments of torsion free structures to the extreme!

Types of ropes presented below

- are non-rotating, flexible lifting belts with a soul of steel
- intensively lubricated
- with high breaking strength
- of special steel core structure which prevents crossings between the strands and the risk of damages inside the rope
- are in use all over the world because of their excellent durability
- are recommended with a swivel as basic point

On request are supplied ropes with still higher breaking strength!

nominal rope ø mm	weight kg/m	minimum breaking strength kN	article No.	price per meter EUR
10	0,460	69,2	0164 1002	4,13
12	0,664	99,9	0164 1202	5,24
13	0,779	117,3	0164 1302	5,80
14	0,904	135,9	0164 1402	6,38
16	1,184	178,1	0164 1602	7,61
18	1,480	222,6	0164 1802	9,36
20	1,846	277,7	0164 2002	11,35
22	2,240	337,0	0164 2202	13,59
24	2,662	400,5	0164 2402	15,10
26	3,119	469,2	0164 2602	17,80

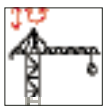
nominal rope ø mm	weight kg/m	minimum breaking strength kN	article No.	price per meter EUR
10	0,470	70,6	0077 1002	3,97
12	0,690	103,0	0077 1202	5,08
13	0,800	120,0	0077 1302	5,69
14	0,930	139,0	0077 1402	6,18
16	1,200	179,0	0077 1602	7,74
18	1,520	227,0	0077 1802	9,03
20	1,890	282,0	0077 2002	10,80
22	2,280	340,0	0077 2202	12,66
24	2,700	405,0	0077 2402	14,97
26	3,170	474,0	0077 2602	17,24

* available also with long lay of rope

nominal rope ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article No.	price per meter EUR
8	75	0,260	47,60	8033 0804	2,22
9	75	0,330	60,20	8033 0904	2,52
10	75	0,410	74,30	8033 1004	2,88
12	75	0,580	107,00	8033 1204	3,52
13	75	0,680	126,00	8033 1304	3,86

building crane-hoist rope

mobile crane-hoist rope



offshore crane- hoist rope

electric pulley rope-

nominal rope ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article No.	bare price per meter EUR	minimum breaking strength kN	article No.	price per meter EUR
10	119	0,450	87,9	01401004	4,70	96,8	01401006	5,16
12	119	0,650	126,5	01401204	5,46	139,4	01401206	6,00
13	119	0,770	148,4	01401304	6,06	163,5	01401306	6,68
14	119	0,890	172,2	01401404	6,66	189,7	01401406	7,32
16	119	1,160	224,8	01401604	7,92	247,8	01401606	8,72
18	119	1,470	284,6	01401804	9,74	313,6	01401806	10,70
20	119	1,820	351,3	01402004	11,64	387,2	01402006	12,80
22	119	2,200	425,2	01402204	13,50	468,5	01402206	14,84
24	119	2,620	506,0	01402404	15,42	557,6	01402406	16,96

nominal rope ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article No.	galvanized price per meter EUR
8	112	0,295	49,4	21630805	4,04
9	112	0,373	62,2	21630905	4,22
10	112	0,461	76,8	21631005	4,90
12	112	0,663	111,0	21631205	5,64
13	112	0,779	130,0	21631305	6,64
14	112	0,903	150,0	21631405	7,66
16	112	1,180	197,0	21631605	8,58
18	112	1,490	249,0	21631805	10,08
20	112	1,840	308,0	21632005	11,58
22	112	2,230	372,0	21632205	13,66

Special non-rotating steel wire ropes compacted for several layer spooling

DeRope

Such an order will be correct:

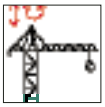
Please complete, when necessary, the last position of article number as follows: bare = 2, galvanized = 3
Please inform us about the processing of endings, e.g. welded, sharpened or smooth.

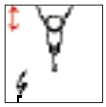
Steel wire ropes are delivered in rings, when a coil is required – please inform!

The processed ends of delivered ropes are inside the coil.

building crane- hoist rope

mobile crane hoist rope


offshore crane- hoist rope


electric pulley rope- hoist rope

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article No.	price per meter EUR	minimum breaking strength kN	article No.	price per meter EUR
10	126	0,490	81,90	8185 1002	6,82	89,60	8185 1004	7,16
12	126	0,705	118,20	8185 1202	7,70	130,80	8185 1204	8,02
13	126	0,821	139,00	8185 1302	7,94	152,70	8185 1304	8,34
14	126	0,949	161,70	8185 1402	8,22	179,10	8185 1404	8,64
16	126	1,257	209,40	8185 1602	10,06	230,60	8185 1604	10,56
18	126	1,601	266,90	8185 1802	11,48	293,90	8185 1804	12,06
20	126	1,956	329,30	8185 2002	12,96	362,20	8185 2004	13,62
22	126	2,373	398,50	8185 2202	14,94	441,40	8185 2204	15,68
24	126	2,813	474,30	8185 2402	17,08	524,30	8185 2404	17,92
26	126	3,285	555,00	8185 2602	20,10	614,90	8185 2604	21,12

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article No.	price per meter EUR	minimum breaking strength kN	article No.	price per meter EUR
8	105	0,300	47,6	6015 0902	3,16	52,7	6015 0904	3,44
9	105	0,380	60,2	6015 0902	3,66	66,7	6015 0904	4,00
10	105	0,470	74,3	6015 1002	4,00	82,3	6015 1004	4,38
12	105	0,670	107,0	6015 1202	5,14	119,0	6015 1204	5,60
13	105	0,790	126,0	6015 1302	5,76	139,0	6015 1304	6,28
14	105	0,910	146,0	6015 1402	6,24	161,0	6015 1404	6,80
16	105	1,190	190,0	6015 1602	7,84	211,0	6015 1604	8,56
18	105	1,510	241,0	6015 1802	9,14	267,0	6015 1804	9,96
20	105	1,860	297,0	6015 2002	10,92	329,0	6015 2004	11,92
22	105	2,250	360,0	6015 2202	12,82	398,0	6015 2204	13,98
24	105	2,680	428,0	6015 2402	15,16	474,0	6015 2404	16,50

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article No.	price per meter EUR	minimum breaking strength kN	article No.	price per meter EUR
8	90	0,300	47,1	6077 0802	3,74	52,6	6077 0804	4,06
9	90	0,370	58,1	6077 0902	4,32	64,3	6077 0904	4,72
10	105	0,510	82,4	6077 1002	4,76	91,7	6077 1004	5,20
12	105	0,730	119,0	6077 1202	6,12	132,0	6077 1204	6,66
13	105	0,860	141,0	6077 1302	6,84	156,0	6077 1304	7,46
14	105	0,990	162,0	6077 1402	7,40	181,0	6077 1404	8,08
16	105	1,310	214,0	6077 1602	9,32	238,0	6077 1604	10,16
18	105	1,650	271,0	6077 1802	10,86	301,0	6077 1804	11,84
20	105	2,040	334,0	6077 2002	12,98	371,0	6077 2004	14,16
21	105	2,260	371,0	6077 2102	14,46	412,0	6077 2104	15,78
22	105	2,480	406,0	6077 2202	15,24	451,0	6077 2204	16,60
24	105	2,940	481,0	6077 2402	18,00	534,0	6077 2404	19,62
26	105	3,380	554,0	6077 2602	20,76	616,0	6077 2604	22,62

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article No.	price per meter EUR
10	189	0,480	95,4	6020 1004	4,28
12	189	0,690	137,0	6020 1204	4,94
13	189	0,810	161,0	6020 1304	5,32
14	238	0,950	195,0	6020 1404	5,88
16	238	1,240	255,0	6020 1604	6,72
18	238	1,570	323,0	6020 1804	8,30
20	238	1,940	398,0	6020 2004	9,96
22	238	2,340	482,0	6020 2204	11,54
24	238	2,790	574,0	6020 2404	13,24
26	238	3,270	645,0	6020 2604	14,98

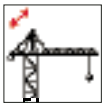
Special preformed steel wire ropes

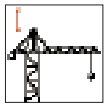
* = plastic wrapped steel core

DoRope

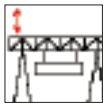
Care for ropes increases their life considerably. Please find core products for ropes on page 182.

building crane- trolley pull rope

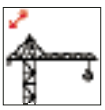

building crane- shifting rope


building crane- hoist rope

building crane- pendant rope


clamshell crane- hoist- & closing rope

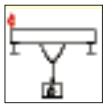
container crane adjustable rope


clamshell crane- hoist- & closing rope

offshore crane- adjustable rope

mobile crane- pendant rope

mobile crane hoist rope


foundry factory crane- hoist rope

clamshell crane- pendant rope

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article no.	price per meter EUR	minimum breaking strength kN	article no.	galvanized price per meter EUR
10	152	0,461	78,8	0165 1002	4,32	87,3	0165 1004	4,74
12	152	0,667	114,0	0165 1202	5,44	126,3	0165 1204	5,96
13	152	0,775	132,4	0165 1302	6,36	146,6	0165 1304	6,98
14	152	0,891	152,4	0165 1402	6,88	168,7	0165 1404	7,54
16	152	1,175	200,9	0165 1602	8,74	222,5	0165 1604	9,54
18	152	1,494	255,4	0165 1802	9,90	282,8	0165 1804	10,82
20	152	1,690	317,8	0165 2002	11,62	352,0	0165 2004	12,66
22	152	2,272	388,5	0165 2202	13,88	430,2	0165 2204	15,18
24	152	2,665	455,7	0165 2402	16,00	504,7	0165 2404	17,44
26	152	2,879	531,7	0165 2602	18,16	588,8	0165 2604	19,80

*

nominal rope-Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article no.	galvanized price per meter EUR
8	152	0,2700	48,70	0045 0805	2,88
10	152	0,4300	76,00	0045 1005	3,62
12	152	0,6200	109,00	0045 1205	4,42
13	152	0,7300	128,00	0045 1305	5,06
14	152	0,8500	149,00	0045 1405	5,60
16	152	1,1100	195,00	0045 1605	6,96
18	152	1,4100	246,00	0045 1805	8,56
20	152	1,7400	304,00	0045 2005	10,18
22	152	1,9100	368,00	0045 2205	12,18
24	152	2,2900	438,00	0045 2405	14,96

*

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article no.	price per meter EUR	minimum breaking strength kN	article no.	galvanized price per meter EUR
8	152	0,283	47,2	0166 0802	2,78	52,3	0166 0804	3,06
10	152	0,444	74,0	0166 1002	4,32	82,0	0166 1004	4,74
12	152	0,643	106,6	0166 1202	5,44	118,0	0166 1204	5,96
13	152	0,746	125,5	0166 1302	6,36	138,9	0166 1304	6,98
14	152	0,864	144,6	0166 1402	6,88	160,1	0166 1404	7,54
16	152	1,140	189,0	0166 1602	8,74	209,3	0166 1604	9,54
18	152	1,437	239,8	0166 1802	9,90	265,5	0166 1804	10,82
20	152	1,802	295,3	0166 2002	11,62	327,0	0166 2004	12,66
22	152	2,186	356,2	0166 2202	13,88	394,5	0166 2204	15,18
24	152	2,579	423,4	0166 2402	16,00	468,9	0166 2404	17,44
26	152	3,006	504,7	0166 2602	18,16	558,8	0166 2604	19,80

*

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article no.	price per meter EUR
10	152	0,43	75,6	0128 1004	4,10
12	152	0,62	108,8	0128 1204	4,90
13	152	0,73	127,7	0128 1304	5,66
14	152	0,84	148,1	0128 1404	6,22
16	152	1,10	193,4	0128 1604	7,96
18	152	1,40	244,8	0128 1804	8,96
20	152	1,72	302,2	0128 2004	10,60
22	152	2,09	365,7	0128 2204	12,66
24	152	2,48	435,2	0128 2404	14,60
26	152	2,91	510,8	0128 2604	16,52

Working remperature max. 280 °C caused by plastic wrapped steel core!

*

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article no.	price per meter EUR	minimum breaking strength kN	article no.	galvanized price per meter EUR
8	152	0,270	43,7	0078 0802	3,38	48,6	0078 0804	3,42
10	152	0,420	68,2	0078 1002	4,20	76,0	0078 1004	4,28
12	152	0,650	106,0	0078 1202	6,02	118,0	0078 1204	6,12
13	152	0,760	122,0	0078 1302	6,86	136,0	0078 1304	7,04
14	152	0,850	137,0	0078 1402	8,10	152,0	0078 1404	8,30
16	152	1,160	187,0	0078 1602	9,22	208,0	0078 1604	9,56
18	152	1,460	236,0	0078 1802	10,80	262,0	0078 1804	11,30
20	152	1,780	288,0	0078 2002	12,82	320,0	0078 2004	13,48
22	152	2,230	361,0	0078 2202	15,62	401,0	0078 2204	16,60
24	152	2,610	422,0	0078 2402	16,64	469,0	0078 2404	17,80
26	152	3,070	497,0	0078 2602	19,94	552,0	0078 2604	21,46

Special preformed steel wire ropes

* = plastic wrapped steel core

DoRope

Plastic interlayers care for quiet work, corrosion protection and bigger rope stability when installed.

nominal rope ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article no.	price per meter EUR
10	171	0,490	89,00	0161 1004	4,02
12	171	0,710	128,10	0161 1204	5,48
13	171	0,830	150,40	0161 1304	5,92
14	171	0,960	174,40	0161 1404	6,46
16	171	1,260	227,80	0161 1604	7,44
18	171	1,590	288,30	0161 1804	9,08
20	171	1,960	355,90	0161 2004	10,74
22	171	2,340	438,30	0161 2204	12,72
24	171	2,790	521,60	0161 2404	14,92
26	171	3,270	612,10	0161 2604	17,38

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article no.	price per meter EUR	minimum breaking strength kN	article no.	price per meter EUR
10	152	0,489	84,9	0065 1002	4,84	94,0	0065 1004	5,30
12	152	0,708	122,4	0065 1202	5,76	135,5	0065 1204	6,28
13	152	0,833	143,0	0065 1302	6,70	158,4	0065 1304	7,32
14	152	0,968	166,2	0065 1402	7,30	184,1	0065 1404	7,96
16	152	1,263	218,4	0065 1602	9,16	241,9	0065 1604	10,00
18	152	1,591	278,5	0065 1802	10,42	308,4	0065 1804	11,38
20	152	1,968	342,3	0065 2002	12,10	379,0	0065 2004	13,22
22	152	2,388	414,4	0065 2202	14,48	458,9	0065 2204	15,80
24	152	2,840	490,2	0065 2402	16,82	542,8	0065 2404	18,34
26	152	3,329	574,4	0065 2602	19,04	636,0	0065 2604	20,78

*

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article no.	price per meter EUR	minimum breaking strength kN	article no.	price per meter EUR
10	152	0,448	78,6	0167 1002	4,84	87,0	0167 1004	5,30
12	152	0,650	112,8	0167 1202	5,76	124,9	0167 1204	6,28
13	152	0,765	133,9	0167 1302	6,70	148,3	0167 1304	7,32
14	152	0,887	154,8	0167 1402	7,30	171,4	0167 1404	7,96
16	152	1,166	203,1	0167 1602	9,16	224,9	0167 1604	10,00
18	152	1,456	255,1	0167 1802	10,42	282,5	0167 1804	11,38
20	152	1,812	314,7	0167 2002	12,10	348,5	0167 2004	13,22
22	152	2,196	384,0	0167 2202	14,48	425,2	0167 2204	15,80
24	152	2,608	455,4	0167 2402	16,82	504,2	0167 2404	18,34
26	152	3,066	538,1	0167 2602	19,04	595,9	0167 2604	20,78

Working temperature max. 280 °C caused by plastic wrapped steel core!

*

nominal rope ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article no.	price per meter EUR
12	171	0,600	122,0	0038 1204	4,70
14	171	0,840	167,0	0038 1404	5,66
16	171	1,100	218,0	0038 1604	6,58
20	171	1,720	340,0	0038 2004	8,56
24	171	2,480	490,0	0038 2404	12,22

Working temperature max. 280 °C caused by plastic wrapped steel core!

High breaking strength is not the only quality criterion. The decisive factor is rope geometry!

Special preformed steel wire ropes

* = plastic wrapped steel core

DoRope

Such an order will be correct:

Please complete, when necessary, the last position of article number as follows:
bare = 2/4 galvanized = 3/5
Please inform us about the processing of endings e.g. welded, sharpened or smooth.

Steel wire ropes are delivered in rings, when a coil is required – please inform! The processed ends of delivered ropes are inside the coil.

Compacted rope section means: at the practically same weight and same rope diameter a higher minimum breaking strength.

DoDiepa PZ 371*

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article no.	price per meter EUR	minimum breaking strength kN	article no.	price per meter EUR
8	152	0,3000	51,00	0037 0802	3,76	56,5	0037 0804	4,08
10	152	0,4700	79,80	0037 1002	4,64	88,40	0037 1004	5,06
12	152	0,6800	115,00	0037 1202	6,64	128,00	0037 1204	7,22
13	152	0,8000	135,00	0037 1302	7,56	150,00	0037 1304	8,24
14	152	0,9200	156,00	0037 1402	8,94	173,00	0037 1404	9,76
16	208	1,2100	204,00	0037 1602	10,16	226,00	0037 1604	11,08
18	208	1,5300	258,00	0037 1802	11,92	286,00	0037 1804	12,98
20	208	1,8900	319,00	0037 2002	14,12	354,00	0037 2004	15,40
22	208	2,2800	386,00	0037 2202	17,22	428,00	0037 2204	18,78
24	208	2,7200	459,00	0037 2402	18,36	509,00	0037 2404	20,00
26	208	3,1900	539,00	0037 2602	21,98	597,00	0037 2604	23,96

Working temperature max. 280 °C caused by plastic wrapped steel core!

nominal rope Ø mm	number of wires for discard ripeness	weight kg/m	minimum breaking strength kN	article no.	price per meter EUR	minimum breaking strength kN	article no.	price per meter EUR
8	152	0,3200	55,3	0008 0802	3,38	61,3	0008 0804	3,74
10	152	0,4900	86,50	0008 1002	4,20	95,80	0008 1004	4,62
12	152	0,7100	123,00	0008 1202	5,94	136,00	0008 1204	6,54
13	152	0,8300	143,00	0008 1302	6,94	159,00	0008 1304	7,62
14	152	0,9800	168,00	0008 1402	7,62	187,00	0008 1404	8,40
16	208	1,2800	221,00	0008 1602	9,70	245,00	0008 1604	10,68
18	208	1,6300	281,00	0008 1802	10,76	311,00	0008 1804	11,84
20	208	2,0000	344,00	0008 2002	12,50	383,00	0008 2004	13,74
22	208	2,4500	422,00	0008 2202	15,02	469,00	0008 2204	16,50
24	208	2,8700	496,00	0008 2402	17,28	550,00	0008 2404	19,00
26	208	3,3300	574,00	0008 2602	19,62	638,00	0008 2604	21,58

Rope accessories

DoDra

According to European standards, steel thimbles, such as type 6899 B, should be applied for slinging purposes only. For technical application for machinery, steel formed thimbles acc.to DIN 3090 are recommended!

article no.	nominal size	max. rope ø	price per piece EUR
0390 1025	S I	25	93,95
0390 1050	S II	50	142,60
0390 1070	S III	70	211,55

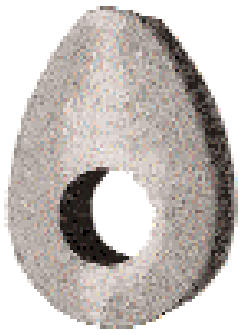
Galvanized thimbles 8699 B

article no.	nominal size	width of grooves mm	L. width x L. length mm	price per piece EUR
0330 2003	2,5	3	12 x 19	0,17
0330 2004	3,5	4	13 x 21	0,22
0330 2005	4,0	5	13 x 23	0,23
0330 2006	5,0	6	16 x 25	0,26
0330 2008	7,0	8	20 x 32	0,30
0330 2010	9,0	10	24 x 38	0,50
0330 2012	11,5	12	28 x 45	0,62
0330 2014	13,0	14	32 x 51	0,84
0330 2016	15,0	16	36 x 58	1,13
0330 2018	16,0	18	40 x 65	2,00
0330 2020	18,0	20	45 x 72	2,03

Galvanized thimbles DIN 3090

article no.	nominal size	width of grooves mm	L. width x L. length mm	price per piece EUR
0330 3005	4	5	10 x 20	0,60
0330 3007	6	7	15 x 30	0,70
0330 3009	8	8	20 x 40	1,10
0330 3011	10	11	25 x 50	2,00
0330 3013	12	13	30 x 60	2,45
0330 3016	14	16	35 x 70	2,75
0330 3018	16	18	40 x 80	4,35
0330 3020	18	20	45 x 90	7,50

solid thimbles DIN 3091



nominal size = max. rope Ø	length mm	drilled hole ø mm raw/processed*	thickness mm	article no.	price per piece EUR	article no.	price per piece EUR
8	56	14 - 20	15,0	0330 4108	4,10	0330 4908	5,70
10	70	18 - 25	17,5	0330 4110	5,60	0330 4910	7,15
12	84	21 - 30	20,0	0330 4112	8,10	0330 4912	10,45
14	98	25 - 35	23,5	0330 4114	11,90	0330 4914	13,80
16	110	28 - 40	26,0	0330 4116	14,25	0330 4916	16,65
18	130	31 - 45	28,5	0330 4118	16,60	0330 4918	19,00
20	140	35 - 50	31,0	0330 4120	19,95	0330 4920	22,80
22	150	38 - 55	33,5	0330 4122	25,20	0330 4922	29,00
24	170	41 - 60	36,0	0330 4124	27,55	0330 4924	33,25
26	180	44 - 65	39,5	0330 4126	37,05	0330 4926	40,85
28	200	47 - 70	42,0	0330 4128	44,65	0330 4928	50,85
32	220	53 - 80	47,0	0330 4132	56,55	0330 4932	63,20
36	250	59 - 90	53,0	0330 4136	92,15	0330 4936	102,60
40	280	65 - 100	58,0	0330 4140	190,00	0330 4940	209,00
44	310	70 - 110	63,0	0330 4144	267,90	0330 4944	318,25

*** The smallest mentioned Ø of drilled hole is considered raw measure (not processed).**

article no.	specification	dimensions	contents pieces	price EUR
5311 3060	snap hook	60 x 6 mm	1	0,95
5311 3070	snap hook	70 x 7 mm	1	1,10
5311 3080	snap hook	80 x 8 mm	1	1,25
5311 3100	snap hook	100 x 10 mm	1	1,50
5311 3120	snap hook	120 x 11 mm	1	1,85
5327 0316	Commercial shackle – galvanized	3/16''	2	1,30
5327 0104	Commercial shackle – galvanized	1/4''	2	1,35
5327 0516	Commercial shackle – galvanized	5/16''	1	1,00
5340 2030	2 rope clamps + 1 thimble	3 mm	–	4,20
5340 2065	2 rope clamps + 1 thimble	6 mm	–	7,25
5340 2080	2 rope clamps + 1 thimble	8 mm	–	4,20
5373 0001	single pulley	ø 40 mm	1	2,80
5373 0002	double pulley	ø 40 mm	1	6,55
5399 0001	swing rings, galvanized	45 x 9 mm	2	1,20

Attention: snapless hooks may endanger the swinging personnel because they may unhook themselves at an discharged rope!

Rope accessories

DaDra

Galvanized snap hooks

article no.	lifting capacity kg not obligatory	opening width mm	dimensions mm	price per piece EUR
0311 3060	120	18	60 x 6	0,94
0311 3070	180	22	70 x 7	1,07
0311 3080	230	24	80 x 8	1,26
0311 3090	250	26	90 x 9	1,51
0311 3100	350	30	100 x 10	1,86
0311 3110	400	32	110 x 10	2,11
0311 3120	450	36	120 x 11	2,30
0311 3130	330	38	130 x 11	3,05
0311 3140	380	40	140 x 12	3,27
0311 3160	410	44	160 x 13	4,14

Galvanized snap hooks, screwable

article no.	lifting capacity kg not obligatory	opening width mm	dimensions mm	price per piece EUR
0311 4060	120	18	60 x 6	1,27
0311 4070	180	22	70 x 7	1,44
0311 4080	230	24	80 x 8	1,70
0311 4090	250	26	90 x 9	2,20
0311 4100	400	30	100 x 10	2,60
0311 4120	450	32	120 x 11	3,25
0311 4140	380	40	140 x 12	4,75
0311 4160	410	44	160 x 13	6,00
0311 4180	560	44	180 x 14	8,20

Eye hook 7541

article no.	nominal size	lifting capacity t	opening width mm	price per piece EUR
0311 2005	17	0,50	18,0	6,18
0311 2010	20	1,00	25,0	7,79
0311 2012	21	1,25	28,0	9,23
0311 2016	22	1,60	31,5	10,37
0311 2020	23	2,00	35,5	12,61
0311 2025	24	2,50	40,0	16,86
0311 2032	25	3,20	45,0	22,38
0311 2040	26	4,00	50,0	34,03
0311 2050	27	5,00	56,0	48,51
0311 2063	28	6,30	63,0	63,88
0311 2080	29	8,00	71,0	91,60
0311 2099	30	10,00	80,0	126,25

Snap hook 229

article no.	lifting capacity t	opening width mm	price per piece EUR
0311 5135	0,4	19	7,80

article no.	breaking load t	opening width mm	price per piece EUR
0635 0005	2,5	18	2,60

***Please note that the BG suggests for manufacturing for rope-end-fittings used for single strand-rope with wire rope champs acc.to DIN EN 13411-5:**
1.increase quantaty of champs by 2
2.oncrease the turning moment for nominal size up to 34 mm by 10 %.

Eye hook, grade 80, OSE

article no.	nominal size	lifting capacity t	opening width mm	price per piece EUR
0909 0106	6	1,12	20	10,85
0909 0108	8	2,00	24	11,62
0909 0110	10	3,15	29	14,72
0909 0113	13	5,30	35	24,62
0909 0116	16	8,00	44	41,26
0909 0120	20	12,50	54	78,01

SIKA snap hook

article no.	lifting capacity t	opening width mm	price per piece EUR
0310 5005	0,5	20	7,00
0310 5012	1,25	24	10,60
0310 5020	2,0	29	13,80
0310 5025	2,5	34	18,65
0310 5030	3,2	34	20,65
0310 5050	5,0	45	36,80
0310 5075	8,0	57	62,80
0310 5100	10,0	61	100,65

High strength S-hook

article	lifting capacity kg	opening width mm	dimensions mm	price per piece EUR
0311 6002	200	25	10 x 80	10,50
0311 6003	300	30	13 x 100	11,80
0311 6005	500	40	16 x 130	12,50
0311 6007	750	50	18 x 160	14,15
0311 6010	1000	55	20 x 180	16,50
0311 6012	1250	60	22 x 200	25,90
0311 6015	1500	65	26 x 220	30,00
0311 6020	2000	80	32 x 260	41,65
0311 6030	3000	95	36 x 320	57,15
0311 6040	4000	110	40 x 360	99,50
0311 6050	5000	120	45 x 400	112,80
0311 6060	6000	135	50 x 450	168,30

PU-coated hook for pipe transport

article no.	eye Ø in mm	lifting capacity per pair t	opening width mm	price per pair EUR
0311 7705	13	0,5	20	210,00
0311 7710	17	1,0	25	238,50
0311 7720	21	2,0	30	255,75
0311 7730	23	3,0	40	284,00
0311 7740	28	4,0	50	306,80
0311 7750	31	5,0	60	326,15

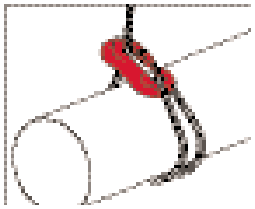
Steel wire clamps according to DIN EN 13411-5, galvanized, for rope connections when required for technical safety purposes *

article no.	rope Ø mm	bow strength threat	necessary clamps	turning moment acc. to DIN Nm	price/piece EUR
0340 1050	5	M 5	3	2,0	0,38
0340 1065	6,5	M 6	3	3,5	0,49
0340 1080	8	M 8	4	6,0	0,74
0340 1100	10	M 10	4	9,0	0,78
0340 1130	13	M 12	4	33,0	2,17
0340 1160	16	M 14	4	49,0	3,26
0340 1190	19	M 14	4	67,7	3,81

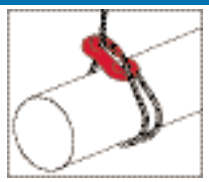
Assembly advice: the bows belong to the dead-end of rope, clamp gripping jaws - for lifting rope!

Rope accessories shackles

DoDra



Rope cord hook



article no.	lifting capacity- in t	rope Ø mm	dimensions in mm K	P	W	T	weight ca. kg	price per piece **EUR**
0982 0404	0,5	8	72	19	18	12	0,2	11,30
0982 0410	1,0	13	72	19	18	20	0,4	17,40
0982 0420	2,0	16	89	19	26	28	0,8	25,50
0982 0440	4,0	20	10	25	34	32	1,7	41,00

shackles, galvanized acc. DIN 82101

shape A (bolt with eye)

shape B (slit bolt)

(dimensions as shape A)

shape C (with protruding bolt, nut and pin)

(dimensions as shape A)

lifting capacity t	bolts Ø mm	width inside mm	article no. shape A	price per piece **EUR**	artricle no. shapeB	price per piece **EUR**	artricle no. shapeC	price per piece **EUR**
0,4	10	14	0320 2004	1,10	0320 4004	5,06	0320 6004	1,98
0,6	12	17	0320 2006	1,46	0320 4006	6,78	0320 6006	2,53
1,0	16	21	0320 2010	2,14	0320 4010	10,03	0320 6010	4,35
1,6	20	27	0320 2016	3,44	0320 4016	15,45	0320 6016	7,50
2,0	22	30	0320 2020	4,61	0320 4020	19,20	0320 6020	9,23
2,5	24	33	0320 2025	5,58	0320 4025	24,30	0320 6025	13,55
3,0	27	38	0320 2030	7,73	0320 4030	31,75	0320 6030	16,20
4,0	30	42	0320 2040	10,20	0320 4040	42,20	0320 6040	20,60
5,0	36	47	0320 2050	18,10	0320 4050	56,95	0320 6050	29,85
6,0	39	53	0320 2060	24,10	0320 4060	80,15	0320 6060	39,10
8,0	45	60	0320 2080	36,25	0320 4080	111,45	0320 6080	54,50
10,0	48	66	0320 2100	45,30	0320 4100	139,00	0320 6100	69,90
12,0	52	73	0320 2120	77,50	0320 4120	193,95	0320 6120	107,95
16,0	60	81	0320 2160	124,15	0320 4160	a. Anfr.	0320 6160	151,10
20,0	68	90	0320 2200	169,30	0320 4200	a. Anfr.	0320 6200	228,10

High strength shackles, galvanized

shape A (profiled) bolt with eye

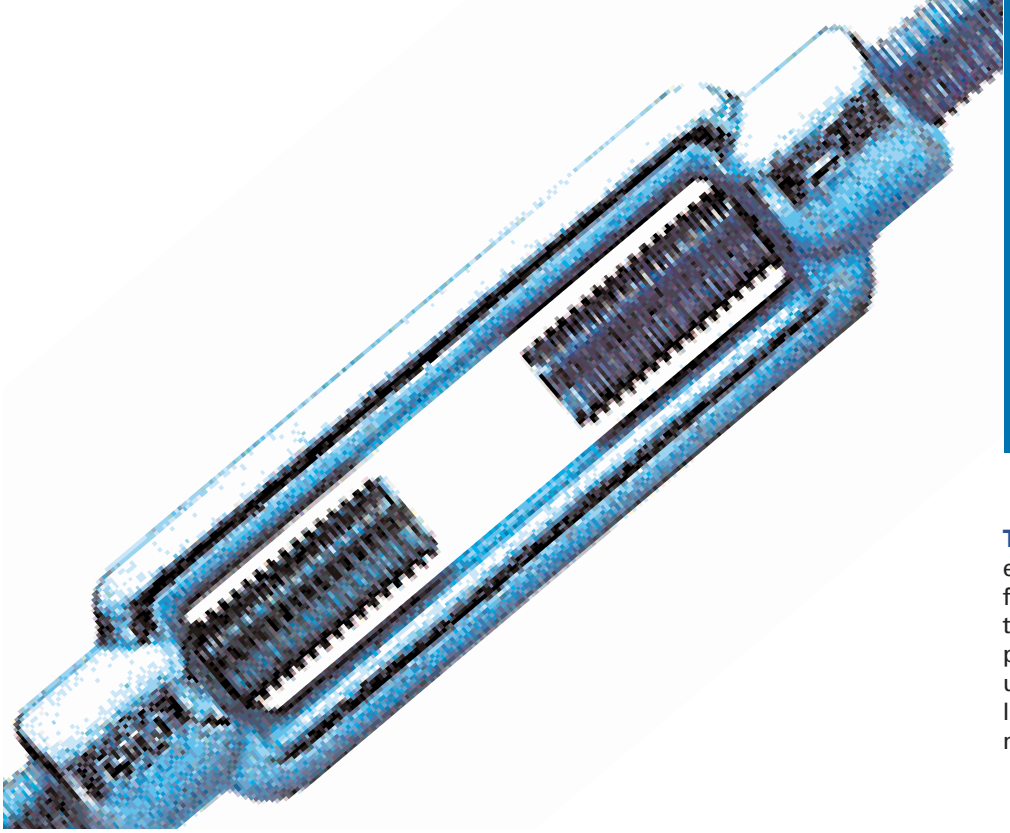
shape B (straight) bolt with eye (dimensions as shape A)

shape C (profiled, with nut and pin) (dimensions as shape A)

shape D (straight, with nut and pin) (dimensions as shape A)

lifting capacity t	bolts Ø Zoll	width inside mm	article no. shape A	price per piece **EUR**	article no. shape B	price per piece **EUR**	article no. shape C	price per piece **EUR**	article no. shape D	price per piece **EUR**
2,00	5/8	21	0320 7020	4,30	0320 8020	4,09	0320 9020	4,72	0321 0020	4,61
3,25	3/4	27	0320 7032	5,97	0320 8032	5,73	0320 9032	7,40	0321 0032	7,40
4,75	7/8	32	0320 7047	7,95	0320 8047	7,64	0320 9047	10,45	0321 0047	10,08
6,50	1	36	0320 7065	11,35	0320 8065	11,05	0320 9065	14,25	0321 0065	13,75
8,50	1 1/8	43	0320 7085	15,70	0320 8085	15,05	0320 9085	18,95	0321 0085	18,40
9,50	1 1/4	46	0320 7095	21,45	0320 8095	20,25	0320 9095	26,35	0321 0095	25,20
12,00	1 3/8	52	0320 7120	30,10	0320 8120	29,00	0320 9120	42,75	03210120	41,65
13,50	1 1/2	57	0320 7135	42,75	0320 8135	41,20	0320 9135	55,10	0321 0135	53,50
17,00	1 5/8	60	0320 7170	55,95	0320 8170	54,30	0320 9170	69,05	0321 0170	66,60
25,00	2	73	0320 7250	96,20	0320 8250	93,75	03209250	110,95	0321 0250	107,65
35,00	2 3/4	83	0320 7350	120,05	0320 8350	145,95	0320 9350	143,05	0321 0350	138,10
55,00	2 3/4	105	0320 7500	339,20	0320 8500	328,80	0320 9500	361,60	0321 0500	350,10

article no.	lifting capacity t	bolt Ø mm	inside width mm	price per piece **EUR**
0321 1025	2,5	25	50	98,60
0321 1030	3	30	50	108,45
0321 1050	5	36	50	140,55
0321 1100	10	50	110	517,50



Rope accessories turnbuckles

DoDra

Turnbuckles are characterized by extremely long adjust distances. The fork end may be later on mounted via the bolt into a construction element and protected against an uninten-tional undoing. The closed eye is to be instal-led in the tightening rope already at the moment of its outfitting.

Galvanized turnbuckles according to DIN 1480, with a hook + eye resp with 2 eyes

article no. hook + eye	article no. hook + hook	article no. eye + eye	type of thread	width of eye mm	rigging screw length mm	price per piece EUR
0360 2006	0360 4006	0360 6006	M 6	9	110	1,63
0360 2008	0360 4008	0360 6008	M 8	10	110	1,93
0360 2010	0360 4010	0360 6010	M 10	14	125	2,74
0360 2012	0360 4012	0360 6012	M 12	16	125	3,32
0360 2016	0360 4016	0360 6016	M 16	22	170	5,95
0360 2020	0360 4020	0360 6020	M 20	24	200	9,88

Other sizes – on request!

Galvanized turnbuckles with special long travel distance (acc. to the U.S. Federal Specification)

2 forks article no.	price per piece EUR	fork/eye article no.	price per piece EUR	2 eyes article no.	price per piece EUR	nominal size inches	rigg. srew length ca. mm	width of eye ca. mm	width of fork ca. mm	fork bolts inches	lifting capacity/ kg
0361 7386	15,85	0361 8386	16,20	0362 0386	13,95	3/8 x 6	180	13	12	5/16	540
0361 7126	21,75	0361 8126	19,55	0362 0126	17,85	1/2 x 6	190	18	16	3/8	1000
0361 7129	25,65	0361 8129	24,55	0362 0129	21,25	1/2 x 9	266	18	16	3/8	1000
0361 7122	29,55	0361 8122	28,50	0362 0122	25,10	1/2 x 12	342	18	16	3/8	1000
0361 7586	40,15	0361 8586	37,40	0362 0586	30,65	5/8 x 6	200	22	19	1/2	1590
0361 7589	41,85	0361 8589	38,45	0362 0589	31,75	5/8 x 9	276	22	19	1/2	1590
0361 7582	45,70	0361 8582	44,05	0362 0582	37,90	5/8 x 12	352	22	19	1/2	1590
0361 7588	65,80	0361 8588	63,50	0362 0588	55,15	5/8 x 18	505	22	19	1/2	1590
0361 7346	51,85	0361 8346	46,25	0362 0346	42,35	3/4 x 6	210	25	23	5/8	2360
0361 7349	55,15	0361 8349	51,85	0362 0349	48,50	3/4 x 9	287	25	23	5/8	2360
0361 7342	65,80	0361 8342	63,55	0362 0342	54,60	3/4 x 12	362	25	23	5/8	2360
0361 7348	80,25	0361 8348	76,90	0362 0348	67,40	3/4 x 18	515	25	23	5/8	2360
0361 7782	84,70	0361 8782	80,80	0362 0782	69,65	7/8 x 12	372	31	28	3/4	3270
0361 7788	104,20	0361 8788	99,75	0362 0788	86,40	7/8 x 18	524	31	28	3/4	3270
0361 7112	98,05	0361 8112	95,80	0362 0112	85,40	1 x 12	381	36	30	7/8	4540
0361 7118	127,00	0361 8118	126,45	0362 0118	114,25	1 x 18	533	36	30	7/8	4540

Galvanized turnbuckles with special long travel distance (acc. to the U.S. Federal Specification)

hook/eye article no.	price per piece EUR	2 hooks article no.	price per piece EUR	nominal size inches	rigg. screw length ca. mm	width of eye ca. mm	width of throat ca. mm	lifting capacity/kg
0361 9386	15,10	0361 1386	15,10	3/8 x 6	180	13	12	450
0361 9126	19,55	0361 1126	20,05	1/2 x 6	190	18	15	680
0361 9129	23,40	0361 1129	20,10	1/2 x 9	266	18	15	680
0361 9122	26,75	0361 1122	26,20	1/2 x 12	342	18	15	680
0361 9586	35,10	0361 1586	36,80	5/8 x 6	200	22	20	1020
0361 9589	36,80	0361 1589	37,90	5/8 x 9	276	22	20	1020
0361 9582	42,35	0361 1582	36,80	5/8 x 12	352	22	20	1020
0361 9588	60,75	0361 1588	61,85	5/8 x 18	505	22	20	1020
0361 9346	45,70	0361 1346	44,05	3/4 x 6	210	25	23	1360
0361 9349	50,70	0361 1349	48,50	3/4 x 9	287	25	23	1360
0361 9342	57,40	0361 1342	65,35	3/4 x 12	362	25	23	1360
0361 9348	71,10	0361 1348	69,10	3/4 x 18	515	25	23	1360
0361 9782	72,95	0361 1782	70,20	7/8 x 12	372	31	26	1810
0361 9788	91,35	0361 1788	88,05	7/8 x 18	524	31	26	1810
0361 9112	92,50	0361 1112	93,05	1 x 12	381	36	29	2270
0361 9118	120,35	0361 1118	114,75	1 x 18	533	36	29	2270

eye bolt
ring nuts
wedge clamps
means of rope maintenance

DoDra

Eye bolts and ring nuts may be loaded only up, up to the inclination angle of 45°.

eye bolts DIN 580

article no.	lifting capacity kg at vertical loading	thread	price per piece **EUR**
0390 6106	60	M 6	0,84
0390 6108	85	M 8	0,86
0390 6110	150	M 10	1,09
0390 6112	220	M 12	1,40
0390 6116	380	M 16	2,00
0390 6120	570	M 20	2,82
0390 6124	1050	M 24	5,56
0390 6130	1700	M 30	10,92
0390 6136	2500	M 36	17,30
0390 6142	3400	M 42	26,96
0390 6148	5200	M 48	47,04

Ring nut DIN 582

article no.	lifting capacity kg at vertical loading	thread	price per piece **EUR**
0390 7106	60	M 6	0,25
0390 7108	85	M 8	0,89
0390 7110	150	M 10	1,14
0390 7112	220	M 12	1,49
0390 7116	380	M 16	2,00
0390 7120	570	M 20	2,75
0390 7124	1050	M 24	5,25
0390 7130	1700	M 30	9,55
0390 7136	2500	M 36	16,70
0390 7142	3400	M 42	25,68
0390 7148	5200	M 48	42,84

wedge clamps

Rope rigging clamps are an assembly aid. Jaws open – rope in and arranging the assembly position – rope downening –rope rigging clamps out. Not applicable as drawing resp lifting eye!

article no.	rope Ø mm	price per piece **EUR**
0340 7004	1 - 4	51,20
0340 7008	3 - 8	70,15
0340 7010	5 -10	84,15
0340 7016	8 - 16	117,25
0340 7026	12 - 26	249,05
0340 7038	20 - 38	412,15

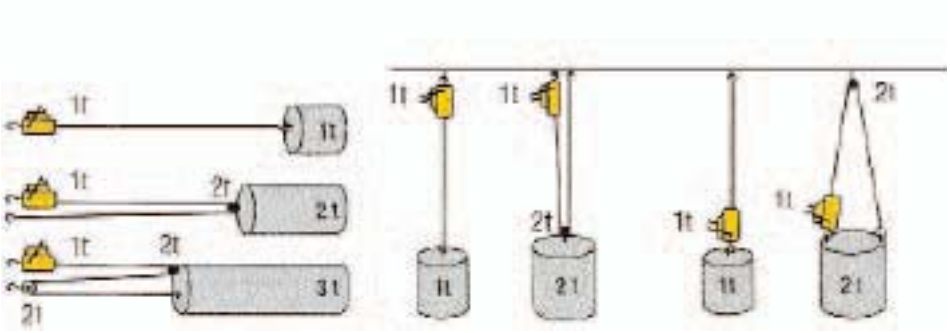
rope-core products

aricle no.	article	price per piece **EUR**
0399 0044	DoGrease F Steel rope grease 1,5 kg bundle	8,50
0397 9999	DoGrease S Steel rope spray 750g spray box	7,50
0399 0055	DoGrease O Steel rope oil Canister of 20 l	396,00
0399 0056	Pressure vessel of 300 ccm	12,65
0399 0057	Smearing brush exchangeable	9,05

As an element of machinery, the rope is exposed to bending cycles all the time. During the run on the wheel and when being coiled onto the drum, the shifts of the individual wires result in permanent abrasion of the neighbouring wires and strands. Regular maintenance by means of DoGrease is as important as changing oil in a motor!

Steel rope pulleys

DoDra



Steel rope pulley of three rolls

GG-roll with swivel long eye article No.	GG-roll with turning hook article No.	lifting cpacity at hook t	roll diameter mm	max. rope diameter mm	price per piece EUR	St.-roll with swivel long eye article No.	St.-roll with turning hook article No.	price per piece EUR
0370 3101	0370 9101	1,6	100	7	341,00	0370 3102	0370 9102	412,00
0370 3121	0370 9121	2,0	125	9	384,00	0370 3122	0370 9122	486,00
0370 3151	0370 9151	5,0	150	11	498,00	0370 3152	0370 9152	677,00
0370 3171	0370 9171	8,0	175	12	722,00	0370 3172	0370 9172	923,00
0370 3201	0370 9201	8,0	200	15	802,00	0370 3202	0370 9202	1.003,00
0370 3221	0370 9221	10,0	225	16	1.079,00	0370 3222	0370 9222	1.296,00
0370 3251	0370 9251	12,5	260	18	1.180,00	0370 3252	0370 9252	1.403,00
0370 3311	0370 9311	20,0	310	23	2.742,00	0370 3312	0370 9312	2.083,00
0370 3351	0370 9351	25,0	350	26	3.475,00	0370 3352	0370 9352	3.889,00
0370 3401	0370 9401	32,0	400	30	4.610,00	0370 3402	0370 9402	5.020,00
–	–	40,0	480	32	–	0370 3482	0370 9482	6.882,00

Steel rope pulley of four rolls

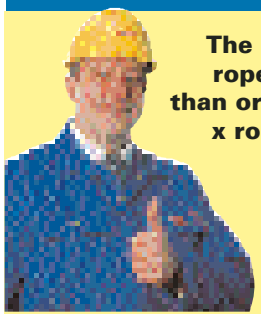
GG-roll with swivel long eye article No.	GG-roll with turning hook article No.	lifting cpacity at hook t	roll diameter mm	max. rope diameter mm	price per piece EUR	St.-roll with swivel long eye article No.	St.-roll with turning hook article No.	price per piece EUR
0370 4101	0371 0101	2,0	100	7	387,00	0370 4102	0371 0102	484,00
0370 4121	0371 0121	3,0	125	9	471,00	0370 4122	0371 0122	611,00
0370 4151	0371 0151	5,0	150	11	816,00	0370 4152	0371 0152	1.045,00
0370 4171	0371 0171	8,0	175	12	1.077,00	0370 4172	0371 0172	1.326,00
0370 4201	0371 0201	10,0	200	15	1.163,00	0370 4202	0371 0202	1.415,00
0370 4221	0371 0221	12,5	225	16	1.688,00	0370 4222	0371 0222	1.978,00
0370 4251	0371 0251	16,0	260	18	1.957,00	0370 4252	0371 0252	2.255,00
0370 4311	0371 0311	25,0	310	23	3.269,00	0370 4312	0371 0312	3.651,00
0370 4351	0371 0351	32,0	350	26	4.605,00	0370 4352	0371 0352	5.057,00
0370 4401	0371 0401	40,0	400	30	6.428,00	0370 4402	0371 0402	6.962,00
–	–	50,0	480	32	–	0370 4482	0371 0482	9.636,00

Opened steel rope pulley of one roll

GG-roll with swivel long eye article No.	GG-roll with turning hook article No.	lifting cpacity at hook t	roll diameter mm	max. rope diameter mm	price per piece EUR	St.-roll with swivel long eye article No.	St.-roll with turning hook article No.	price per piece EUR
0370 5101	0371 1101	0,5	100	7	224,00	0370 5102	0371 1102	252,00
0370 5121	0371 1121	1,0	125	9	252,00	0370 5122	0371 1122	292,00
0370 5151	0371 1151	2,0	150	11	355,00	0370 5152	0371 1152	412,00
0370 5171	0371 1171	3,0	175	12	423,00	0370 5172	0371 1172	490,00
0370 5201	0371 1201	3,0	200	15	470,00	0370 5202	0371 1202	535,00
0370 5221	0371 1221	5,5	225	16	589,00	0370 5222	0371 1222	669,00
0370 5251	0371 1251	5,0	260	18	679,00	0370 5252	0371 1252	749,00
0370 5311	0371 1311	8,0	310	23	1.059,00	0370 5312	0371 1312	1.147,00
0370 5351	0371 1351	10,0	350	26	1.530,00	0370 5352	0371 1352	1.642,00
0370 5401	0371 1401	12,5	400	30	2.006,00	0370 5402	0371 1402	2.113,00

Openedsteel rope pulley of two rolls

GG-roll with swivel long eye article No.	GG-roll with turning hook article No.	lifting cpacity at hook t	roll diameter mm	max. rope diameter mm	price per piece EUR	St.-roll with swivel long eye article No.	St.-roll with turning hook article No.	price per piece EUR
0370 6101	0371 2101	1,0	100	7	375,00	0370 6102	0371 2102	417,00
0370 6121	0371 2121	1,6	125	9	417,00	0370 6122	0371 2122	489,00
0370 6151	0371 2151	3,0	150	11	616,00	0370 6152	0371 2152	703,00
0370 6171	0371 2171	5,0	175	12	716,00	0370 6172	0371 2172	878,00
0370 6201	0371 2201	5,0	200	15	984,00	0370 6202	0371 2202	1.153,00
0370 6221	0371 2221	8,0	225	16	1.135,00	0370 6222	0371 2222	1.305,00
0370 6251	0371 2251	8,0	260	18	1.432,00	0370 6252	0371 2252	1.634,00
0370 6311	0371 2311	12,5	310	23	2.084,00	0370 6312	0371 2312	2.250,00
0370 6351	0371 2351	16,0	350	26	2.754,00	0370 6352	0371 2352	2.988,00
0370 6401	0371 2401	20,0	400	30	3.968,00	0370 6402	0371 2402	4.215,00



The optimum steel rope pulley: bigger than or equal with 25 x rope diameter (d)

Steel rope pulley 30, with red cast nut

gray cast article no.	sheave ø mm	groove width mm	groove depth mm	hub length mm	hub ø mm	drill hole ø mm	price per piece EUR	steel article no.	price per piece EUR
0373 0101*	100	12	10	23	40	19	28,55	0373 0102	55,95
0373 0121*	125	14	11	24	48	22	51,45	0373 0122	86,10
0373 0151*	150	16	12	29	63	30/35	60,50	0373 0152	121,80
0373 0171	175	19	15	40	70	40	83,25	0373 0172	145,95
0373 0201	200	20	15	40	70	40	94,20	0373 0202	165,90
0373 0221	225	24	20	48	85	55	124,95	0373 0222	204,75
0373 0251	250	24	20	48	85	55	147,00	0373 0252	227,85
0373 0311	310	26	25	56	100	60/65	238,35	0373 0312	326,55
0373 0351	350	28	25	56	110	70	328,65	0373 0352	447,30
0373 0401	400	30	30	68	125	80	486,15	0373 0402	630,00
0373 0481	480	32	35	68	135	85	686,70	0373 0482	889,35
–	490	36	45	80	155	100	–	0373 0492	1.298,85
–	600	40	50	94	180	125	–	0373 0602	1.754,55

*** of polyamide**

Steel rope pulley 31, with full bottom

article no.	sheave Ø mm	groove width mm	groove depth mm	hub length mm	hub ø mm	drill hole ø mm	price per piece EUR
0373 1111	110	12	9	24	50	18	23,20
0373 1131	135	12	10	24	57	20	29,30
0373 1161	165	14	13	29	65	24	46,40
0373 1191	190	16	15	31	72	26	70,65
0373 1221	220	20	18	36	82	28	107,10
0373 1241	245	23	19	40	94	32	133,35
0373 1271	270	25	20	42	100	34	161,70
0373 1301	300	25	23	42	100	40	171,15
0373 1321	325	25	23	46	110	48	186,90
0373 1351	350	26	25	46	120	50	257,25
0373 1401	400	26	26	50	140	60	382,20

Steel rope pulley 32, with narrow, round groove

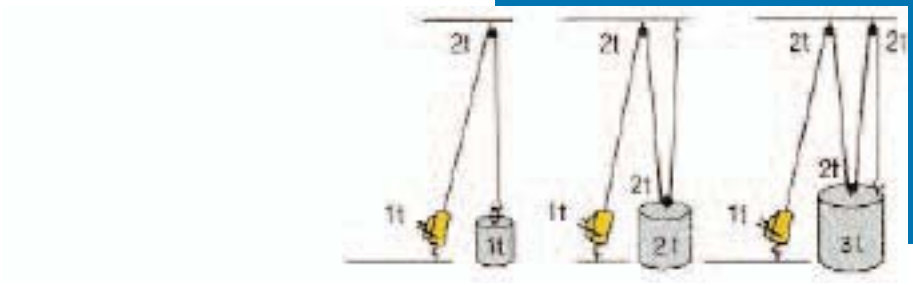
article no.	sheave Ø mm	groove width mm	groove depth mm	hub length mm	hub ø mm	drill hole ø mm	price per piece EUR
0373 2021	25	5	3	9	8	4	1,70
0373 2031	30	6	4	10	9	4	1,70
0373 2041	40	7	4	11	12	4	1,75
0373 2051	50	7,5	5	12	13	5	1,95
0373 2061	60	9	6	13	14	5	2,75
0373 2071	70	9	6	14	16	6	3,60
0373 2081	80	11	7	16	17	6	4,30
0373 2101	100	11	7	16	18	6	6,40
0373 2121	120	12	8	19	25	6	15,35

Steel rope pulley 33, with regular hub

article no.	sheave Ø mm	groove width mm	groove depth mm	hub length mm	hub ø mm	drill hole ø mm	price per piece EUR
0373 3021	30	8,5	4	11,5	12	4	1,85
0373 3031	40	9	5	14,5	12	5	2,40
0373 3041	50	11	7	18,5	13	5	2,45
0373 3051	60	12,5	8	20,0	15	6	3,05
0373 3061	70	14	9	22,0	19	8	4,40
0373 3071	80	15	10	23,5	20	10	5,50
0373 3081	90	17	11	24,5	20	11	6,40
0373 3101	100	18	12	27,5	24	12	7,90
0373 3121	120	20	15	32,0	24	12	12,20

Steel rope pulley

When a transmission rope runs over one or more sheaves, the tensile force gets doubled / multiplicated. Here the examples:



Steel rope pulley 34, with raw groove

article no.ø mm	sheave-width	groove depth mm	groove length mm	hub ø mm	hub ø mm	drill hole mm	price per piece EUR
0373 4061	60	6	6	16	32	11	6,30
0373 4071	75	7	7	16	33	12	9,15
0373 4091	90	9	9	20	36	14	10,20
0373 4101	100	10	10	24	40	14	14,20
0373 4121	120	11	11	30	46	19	18,50
0373 4131	130	13	13	32	52	22	24,90
0373 4151	150	15	15	35	54	25	30,15
0373 4171	175	17	17	43	60	27	45,70
0373 4201	200	19	19	52	63	30	64,05
0373 4231	230	23	23	61	71	35	93,35

Steel rope pulley 35, with rolled groove

article no.	sheave-ø mm	groove width mm	groove depth mm	hub length mm	hub ø mm	drill hole ø mm	price per piece EUR
0373 5111	115	11	13	26	38	14	35,90
0373 5151	155	11	13	28	48	19	41,50
0373 5181	185	17	18	35	54	22	61,85
0373 5221	220	17	18	35	54	22	68,45
0373 5261	260	19	19	43	65	25	122,85
0373 5311	310	28	30	56	85	35	185,85

Steel rope pulley 40, of polyamide

article no.ø mm	sheave-width	groove depth mm	groove length mm	hub ø mm	hub ø mm	drill hole mm	price per piece EUR
0374 0015	15	6	3	9	--	4	0,65
0374 0020	20	6	4	10	--	4	0,65
0374 0025	25	7	4	11	--	4	0,80
0374 0030	30	8	6	12	--	6	1,00
0374 0041	40	9	7	13	15	7	1,40
0374 0045	48	8	4	15	17	15	1,75
0374 0051	50	12	9	16	16	7	1,80

Steel rope pulley of one roll, GG = grey cast iron, St. = steel

GG-roll mit swivel long article No.	GG-roll with turning hook article No.	lifting cpacityat hook t	roll diameter mm	max. rope diameter mm	price per piece EUR	St-roll with swivel long eye article No.	St-roll with turning hook article No.	price per piece EUR
0370 1101	0370 7101	0,5	100	7	186,00	0370 1102	0370 7102	204,00
0370 1121	0370 7121	1,0	125	9	208,00	0370 1122	0370 7122	259,00
0370 1151	0370 7151	2,0	150	11	270,00	0370 1152	0370 7152	324,00
0370 1171	0370 7171	3,0	175	12	345,00	0370 1172	0370 7172	405,00
0370 1201	0370 7201	3,0	200	15	376,00	0370 1202	0370 7202	447,00
0370 1221	0370 7221	5,0	225	16	476,00	0370 1222	0370 7222	556,00
0370 1251	0370 7251	5,0	260	18	535,00	0370 1252	0370 7252	617,00
0370 1311	0370 7311	8,0	310	23	825,00	0370 1312	0370 7312	906,00
0370 1351	0370 7351	10,0	350	26	1.277,00	0370 1352	0370 7352	1.395,00
0370 1401	0370 7401	12,5	400	30	1.621,00	0370 1402	0370 7402	1.761,00
–	–	16,0	480	32	–	0370 1482	0370 7482	2.880,00

Steel rope pulley of two rolls, GG = grey cast iron, St. = steel

GG-roll mit swivel long article no.	GG-roll with turning hook article no.	lifting cpacityat hook t	roll diameter mm	max. rope diameter mm	price per piece EUR	St-roll with swivel long eye article no.	St-roll with turning hook article no.	price per piece EUR
0370 2101	0370 8101	1,0	100	7	245,00	0370 2102	0370 8102	292,00
0370 2121	0370 8121	1,6	125	9	303,00	0370 2122	0370 8122	371,00
0370 2151	0370 8151	3,0	150	11	375,00	0370 2152	0370 8152	490,00
0370 2171	0370 8171	5,0	175	12	512,00	0370 2172	0370 8172	634,00
0370 2201	0370 8201	5,0	200	15	550,00	0370 2202	0370 8202	681,00
0370 2221	0370 8221	8,0	225	16	708,00	0370 2222	0370 8222	850,00
0370 2251	0370 8251	8,0	260	18	806,00	0370 2252	0370 8252	954,00
0370 2311	0370 8311	12,6	310	23	1.455,00	0370 2312	0370 8312	1.614,00
0370 2351	0370 8351	16,0	350	26	2.065,00	0370 2352	0370 8352	2.286,00
0370 2401	0370 8401	20,0	400	30	3.040,00	0370 2402	0370 8402	3.301,00
–	–	25,0	480	32	–	0370 2482	0370 8482	4.511,00

Rope accessories

DoDra

Anticorrosion primer coated rope locks (for elevator construction)

nominal size mm	for rope-Ø mm	article No. without bolts washer & pin	price per piece EUR	article No. full set	price per piece EUR
5	4 - 5	0390 8005	5,20	0390 8505	6,70
8	6 - 8	0390 8008	7,20	0390 8508	9,10
11	9 - 11	0390 8011	11,40	0390 8511	14,60
14	12 - 14	0390 8014	20,70	0390 8514	24,20
17	15 - 17	0390 8017	32,95	0390 8517	36,65
20	18 - 22	0390 8020	49,40	0390 8520	60,00
25	22 - 25	0390 8025	153,00	0390 8525	168,50
30	26 - 30	0390 8030	248,60	0390 8530	281,55
35	31 - 35	0390 8035	685,30	0390 8535	758,60
40	36 - 40	0390 8040	982,80	0390 8540	1073,10

Wire rope anchorage (for lifting equipment)

article No.	lifting capacity t	for rope Ø mm	price per piece EUR
0313 6045	0,25	4 - 5	12,75
0313 6067	0,50	6 - 7	15,10
0313 6008	0,50	8	15,30
0313 6912	0,50	9 - 12	15,50
0313 6112	1,00	10 - 12	18,80
0313 6014	1,00	12 - 14	19,00
0313 6015	2,50	12 - 15	43,05
0313 6020	4,00	16 - 20	210,40
0313 6026	7,00	21 - 26	427,15

Pear shaped rope socket rope shackle lashing rope clamp

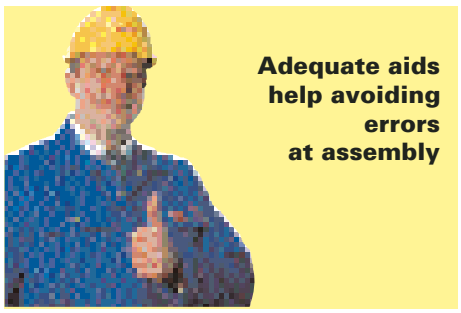
for rope Ø max in mm	effective breaking load kp	article No. rope socket	price EUR	article No. rope shackle	price EUR	article No. lashing rope clamp	price EUR
10	7000	0375 0001	112,20	0375 1001	249,05	0375 2001	-
10 - 12	10050	0375 0002	161,50	0375 1002	258,40	0375 2002	127,50
13 - 14	13650	0375 0003	190,40	0375 1003	262,65	0375 2003	153,85
13 - 16	15700	0375 0004	197,20	0375 1004	281,35	0375 2004	156,40
18	20160	0375 0005	203,15	0375 1005	288,15	0375 2005	164,90
19 - 20	22600	0375 0006	210,80	0375 1006	308,55	0375 2006	170,85
22 - 24	33750	0375 0007	215,90	0375 1007	315,35	0375 2007	210,80
27	40200	0375 0008	223,55	0375 1008	336,60	0375 2008	215,05
29	47150	0375 0009	258,40	0375 1009	365,50	0375 2009	269,45
31 - 33	62750	0375 0010	273,70	0375 1010	432,65	0375 2010	297,50
35	71400	0375 0011	373,15	0375 1011	474,30	0375 2011	430,10
37	80600	0375 0012	448,80	0375 1012	525,30	0375 2012	433,50
40	90400	0375 0013	642,60	0375 1013	664,70	0375 2013	449,65
43 - 45	107500	0375 0014	688,50	0375 1014	761,60	0375 2014	-
48	120350	0375 0015	734,50	0375 1015	894,20	0375 2015	566,10

Rope head castings

rope Ø mm	price per piece EUR
10	29,90
11	34,95
12	39,10
13	43,25
14	44,65
15	47,85
16	52,90
18	59,35
20	64,90
22	77,75
24	81,00
26	86,50
28	90,65
30	107,70
32	117,35
34	127,45
36	156,00
38	166,10
40	204,30
42	220,90
44	226,40

Fork rope clamp with bolt (shape C) without bolt (shape B) Bow rope clamp

for ropeØ max. in mm	lifting capacity kg	article No. fork rope clamp, shape B	price EUR	article No. fork rope clamp, shape C	price EUR	article No. bow rope clamp	price EUR
10 - 12	1000	0375 3010	45,70	0375 4010	56,35	-	-
12 - 14	1600	0375 3016	72,25	0375 4016	85,05	0375 5016	65,90
14 - 18	2500	0375 3025	80,75	0375 4025	101,00	0375 5025	70,15
16 - 20	3000	0375 3030	87,15	0375 4030	111,60	0375 5030	88,25
18 - 22	4000	0375 3040	104,20	0375 4040	132,90	0375 5040	95,65
20 - 24	5000	0375 3050	132,90	0375 4050	170,10	0375 5050	106,30
22 - 28	6000	0375 3060	170,10	0375 4060	217,90	0375 5060	164,75
26 - 30	8000	0375 3080	196,65	0375 4080	265,75	0375 5080	180,70
28 - 34	10000	0375 3100	265,75	0375 4100	350,80	0375 5100	201,95
32 - 38	12000	0375 3120	356,10	0375 4120	451,80	0375 5120	249,80
36 - 44	16000	0375 3160	446,45	0375 4160	574,00	0375 5160	441,15
40 - 50	20000	0375 3200	637,80	0375 4200	807,90	0375 5200	558,10
44 - 54	25000	0375 3250	749,40	0375 4250	988,60	0375 5250	627,15
50 - 62	32000	0375 3320	951,40	0375 4320	1243,70	0375 5320	802,55



Rope claddings strand length catches

DoDra

Rope pulling cladding SES 100

1.250 mm article No.	rope diameter from - to mm	price per piece EUR	1.500 mm article No.	price per piece EUR
0399 1001	8 - 15	64,15	0399 1002	73,50
0399 1011	15 - 20	66,30	0399 1012	76,70
0399 1021	20 - 30	69,20	0399 1022	80,35
0399 1031	30 - 40	78,20	0399 1032	91,60
0399 1041	40 - 50	89,50	0399 1042	105,00

Rope stretching cladding SMS 200

1.250 mm article No.	rope diameter from - to mm	price per piece EUR	1.500 mm article No.	price per piece EUR
0399 2001	8 - 15	69,75	0399 2002	70,30
0399 2011	15 - 20	72,45	0399 2012	82,45
0399 2021	20 - 30	75,30	0399 2022	86,25
0399 2031	30 - 40	87,65	0399 2032	101,30
0399 2041	40 - 50	98,50	0399 2042	110,85

Rope connecting cladding SVS 400 - standard

1.500 mm article No.	rope diameter from - to mm	price per piece EUR	2.000 mm article No.	price per piece EUR
0399 4001	6 - 8	76,00	0399 4002	92,90
0399 4901	8 - 10	76,00	0399 4902	92,90
0399 4011	10 - 15	77,90	0399 4012	94,85
0399 4911	15 - 20	79,85	0399 4912	98,30
0399 4021	20 - 30	83,40	0399 4022	100,15
0399 4031	30 - 40	90,35	0399 4032	112,15
0399 4041	40 - 50	109,55	0399 4042	136,00

Rope connecting cladding SVS 400 - reinforced

1.500 mm article No.	rope diameter from - to mm	price per piece EUR	2.000 mm article No.	price per piece EUR
0399 4016	10-15	77,90	0399 4017	94,85
0399 4916	15-20	80,00	0399 4917	98,30
0399 4026	20-30	83,35	0399 4027	100,15
0399 4936	30-40	90,35	0399 4037	107,90
0399 4046	40-50	109,55	0399 4047	141,35

In case of a rigid coupling of a rope to be disposed with a new rope to be assembled, the strand damages of the old rope may get transferred to the new one. Use for this purpose two rope pulling claddings SES 100 of whose thimbles are to be bound together by a strand length catch or by a soft iron wire (which are strong enough to withstand the rope's own dead weight). The strand damages / the length of strand may get disengaged in this coupling element.

When turning moments will not be involved, both ends of ropes may be connected with each other by connecting cladding SVS 400.
As an element of a machinery, the rope is all the time exposed to bending load.

During the run on the wheel and when being coiled onto the drum, the shifts of the individual wires result in permanent abrasion of the neighbouring wires and strands. Regular rope core products, for example DoGrease are as important as changing oil in a motor!

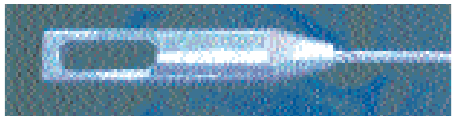
Light metal strand length catches

article No.	diameter x length fork width mm	maximum tensile force kN	price per piece EUR
0399 9001	20x95/8	5	121,80
0399 9002	30x130/10xSeil	25	172,80
0399 9003	45x150/2 Schäkel	35	212,30

To link the rope pulling claddings from old to new wire rope!

Initial pear shaped socket with compensation swivel

article No.	rope ø from-up to mm	external ø in mm	max. tension force kN	price/piece EUR
0399 9005	4- 5	20	10	186,00
0399 9006	6- 8	26	20	237,80
0399 9007	6- 8	35	30	312,80
0399 9008	8- 9	43	40	352,90
0399 9009	10-11	43	40	389,35

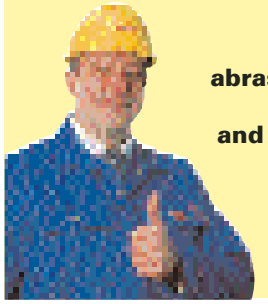


coated steel wire ropes

galvanized strength class 1770

alloy steel strength class 1570

DoDra



All coating decrease abrasion, suppress noises and improve work softness

coating materials

- PVC , soft and pliant, used first of all for anticorrosion purposes
- Polyamide offers abrasive strength
- Polyethylene and polypropylene protect against chemicals
- Teflon has a good chemical resistance however, is not in the same degree abrasion resistance as e.g. polyamide.

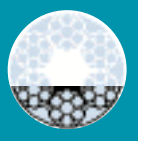
Select a plastic coating when also the galvanized wire coating is to be protected against corrosion, or when the metallic rope surface may negatively influence the life of a whole system. Maybe also aesthetic aspects are of importance anyway, inquire about the available coating colors. For special purposes may be special mantles available – our Dolezych advisors will be willingly of assistance to you in this respect.

coating	PA 6	FEP	PVC	PE
	polyamide	teflon	polyvinyl chlorid	polyethylene
temperature of application	-40° C up to +110° C	-100° C up to +205° C	-30° C up to +70° C	-50° C up to +100° C
for a short time	+140° C	+230° C	+100° C	+120° C
decay resistance	good	very good	good	good
inflammability	inflammable	not inflammable	self-extinguishing	inflammable
abrasion resistance	very good	conditional	conditional	good

Apart from the above coatings materials, also other materials are possible – please inform us of the planned application. As a matter of principle, all mantles decrease abrasion, suppress noise and improve work softness.

6 x 7 + fibre core (CF)
PVC coated
transparent

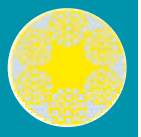
* special product
4 x 4 + iron core



nominal rope-Ø/ total Ø mm	weight kg/m	minimum breaking strength kN	article No.	price per 100 meter EUR
1,1 / 2*	0,0120	0,48	0050 0111	21,90
2,0 / 3	0,0184	2,35	0050 0201	31,30
2,5 / 3,5	0,0280	3,80	0050 0251	35,45
3,0 / 4	0,0377	5,29	0050 0301	40,65
4,0 / 5	0,0645	9,41	0050 0401	52,10

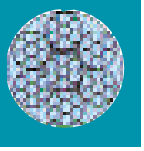
6 x 19 + fibre core (CF)
PVC coated
transparent

mantle



nominal rope-Ø/ total Ø mm	weight kg/m	minimum breaking strength kN	article No.	price per 100 meter EUR
4,0 / 5	0,0681	8,70	0052 0401	52,10
5,0 / 6	0,0939	13,60	0050 0501	103,20
6,0 / 8	0,1465	19,60	0050 0601	120,90
8,0 / 10	0,2491	34,28	0050 0801	152,15
10 / 12	0,4080	54,40	0050 1001	210,50
5,0 / 6	0,1250	14,70	0054 0501	189,65

material
No. 1.4401
PVC coated
transparent



nominal rope-Ø/ total Ø mm	weight kg/m	minimum breaking strength kN	article No.	price per 100 meter EUR
3,0 / 5	0,0522	5,6	0170 0501	130,25
4,0 / 6	0,0941	9,6	0170 0603	184,45
4,0 / 8	0,1163	9,6	0170 0801	205,30
5,0 / 7	0,1106	14,9	0170 0703	254,25

Black ropes for theatres, rigging and design

DeDra

6 x 7 + steel core

rope diameter mm	weight kg/m	article No.	minimum breaking strength kN nominal tensile strength 1770N/mm2	price per meter EUR	article No.	minimum breaking strength kN nominal tensile strength 1960N/mm2	price per meter EUR
1,5	0,89	1131 0153	1,42	1,20	1131 0155	1,57	1,32
2	1,57	1131 0203	2,54	1,16	1131 0205	2,81	1,28
2,5	2,46	1131 0253	3,96	1,20	1131 0255	4,39	1,34
3	3,54	1131 0303	5,71	1,26	1131 0305	6,32	1,40
4	6,29	1131 0403	10,2	1,38	1131 0405	11,3	1,54
5	9,83	1131 0503	15,9	1,54	1131 0505	17,6	1,72

17 x 7 + steel core

rope diameter mm meter	weight kg/m	article No.	minimum breaking strength kN nominal tensile strength 1770N/mm2	price per meter EUR	article No.	minimum breaking strength kN nominal tensile strength 1960N/mm2	price per EUR
4	6,43	1082 0403	9,29	2,42	1082 0405	10,3	2,68
5	10	1082 0503	14,5	2,72	1082 0505	16,1	3,02
6	14,5	1082 0603	20,9	3,12	1082 0605	23,1	3,46
7	19,7	1082 0703	28,5	3,30	1082 0705	31,5	3,66
8	25,7	1082 0803	37,2	3,50	1082 0805	41,1	3,88

6 x 19 + steel core

rope diameter mm	weight kg/m	article No.	minimum breaking strength kN nominal tensile strength 1770N/mm2	price per meter EUR	article No.	minimum breaking strength kN nominal tensile strength 1960N/mm2	price per meter EUR
3	3,42	1132 0303	5,29	1,56	1132 0305	5,86	1,74
4	6,09	1132 0403	9,4	1,84	1132 0405	10,40	2,04
5	9,52	1132 0503	14,7	2,06	1132 0505	16,30	2,28
6	13,8	1132 0603	21,2	2,16	1132 0605	23,50	2,40
7	18,7	1132 0703	28,8	2,38	1132 0705	31,90	2,64
8	24,3	1132 0803	37,6	2,64	1132 0805	41,60	2,94

6 x 19 Warrington + steel core

rope diameter mm	weight kg/m	article No.	minimum breaking strength kN nominal tensile strength 1770N/mm2	price per meter EUR	article No.	minimum breaking strength kN nominal tensile strength 1960N/mm2	price per meter EUR
3	3,69	11410303	5,7	1,64	11410305	6,3	1,82
4	6,55	1141 0403	10,1	1,92	1141 0405	11,2	2,12
5	10,2	1141 0503	15,8	2,14	1141 0505	17,5	2,38
6	14,7	1141 0603	22,8	2,26	1141 0605	25,2	2,52
7	20,1	1141 0703	31,0	2,48	1141 0705	34,3	2,76
8	26,2	1141 0803	40,5	2,80	1141 0805	44,8	3,10

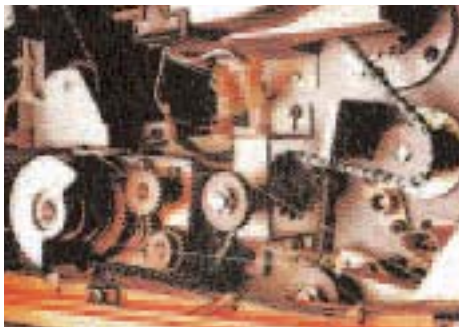
Black ropes...

...belong to our program of special ropes since early 2002 and they are manufactured by us on a high quality level for the stage technique and for architectural design purposes. We supply under the brand name BLACK STAR a variety of structures and diameters of 6 strand ropes. Our program covers black ropes in dimensions of 1,5 up to 8 mm. We can offer you the common on the market variants of rope cores: of chemical fibres or steel. Our ropes are delivered worldwide.
during their manufacture the ropes are subject to highest quality regulations which includes also the special dying technique. The black color is achieved means of a highly advanced chemical process. All the used wires are being adjusted to the purpose of their application.
For covering the surface we use a special maintenance coating, which is connected with considerable technical advantages with respect to lubrication and color durability.
We guarantee a high quality black to the ropes however, we are not able to guarantee their durability. During the life durability tests carried out by us, the ropes have achieved excellent results. If necessary, the ropes can be afterwards blacked up afterwards. The necessary set may be bought from us.

Alloy steel ropes and accessories for industrial applicati-on

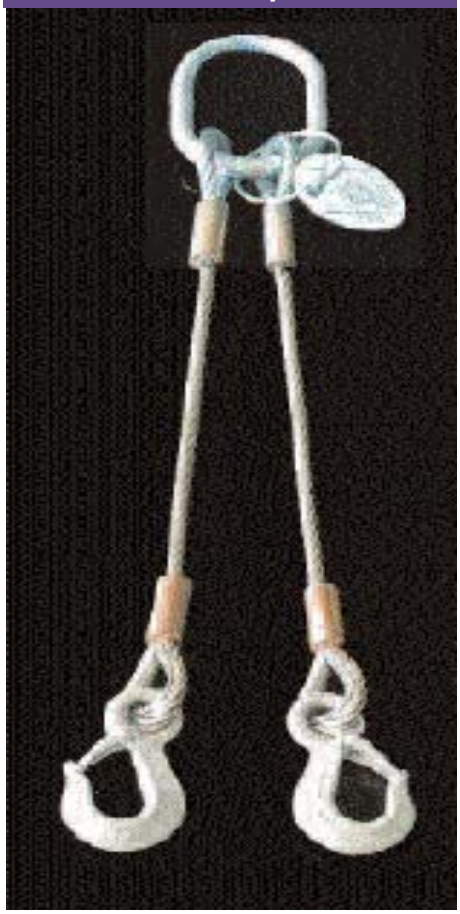
DoVier

Since a long time alloy steel wire ropes have a firm position in trans-port by see, the machine industry, chemical industry, food industry and in medical technique.



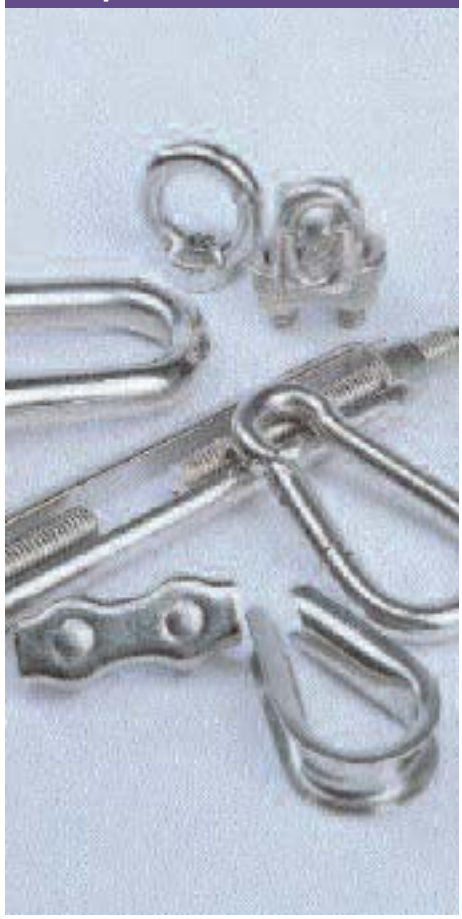
Our alloy steel program for industrial purposes is divided into the following branches: (page 192-195)

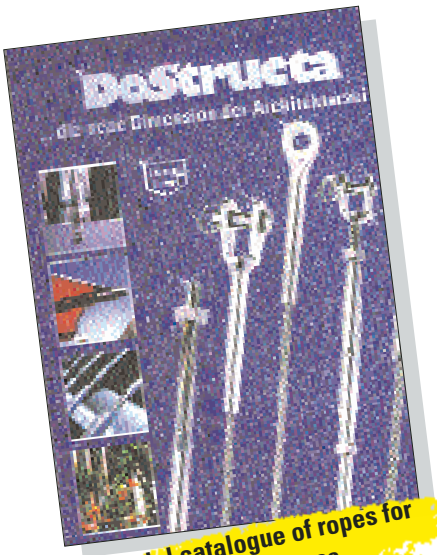
slinging ropes and accessories of alloy steel



Alloy steel ropes meter ware

Standard rope accessories of alloy steel





Special catalogue of ropes for architectural purposes „DoStructa" – delivered on demand!

Ropes for architectural purposes

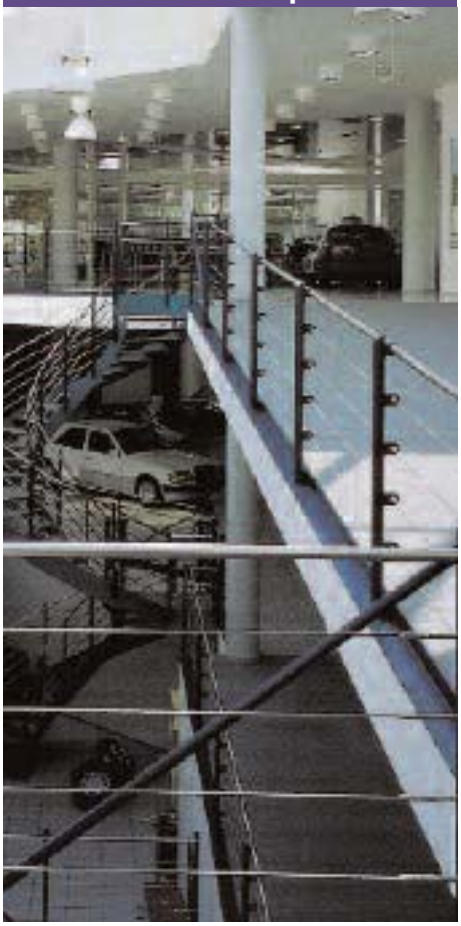
DoStructa

Functionalism and aesthetics are main reasons for the application of alloy steel in architecture. A variety of connecting elements, used since many many years and those developed recently, make the rope technique a firm element of the modern building and construction technique.

Our program of alloy steel ropes for architectural purposes is divided into the following branches: (pages 196-214)

Ready made ropes

ropes for individual installation on the spot



Pipes and fixtures for Balustrades and hand rails

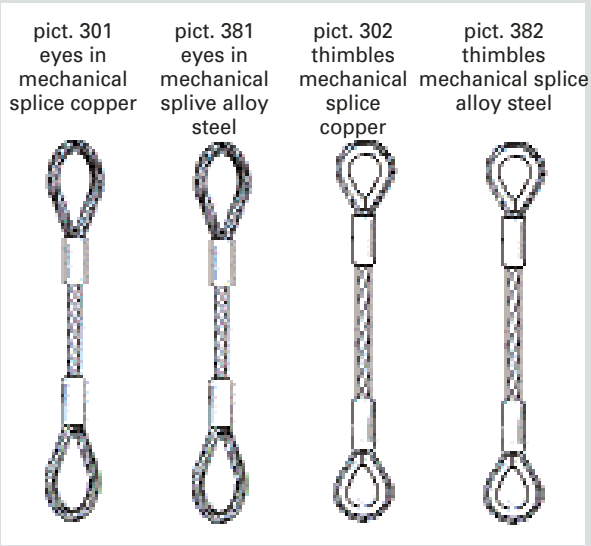
Alloy steel ropes and accessories

DoVier

Alloy steel – ideal for the alimentary industry application!

Host fret

Sling ropes of alloy steel



lifting capacity kg regular direct	nominal rope diameter mm	price per 1 m of effective length 2401...1 EUR	2481...1 EUR	2402...1 EUR	2482...1 EUR	price per any add. meter EUR
40	2,0	7,50	8,15	10,80	11,50	1,10
85	3,0	9,25	11,55	12,50	14,85	1,40
150	4,0	11,60	13,30	17,10	18,75	1,90
240	5,0	13,25	15,60	18,80	21,20	2,20
350	6,0	14,80	17,55	22,60	25,35	3,10
500	8,0	19,40	24,15	34,05	38,75	4,30
850	10,0	26,50	31,85	46,75	52,10	7,10
1200	12,0	36,50	44,60	53,70	75,20	9,90

Please complete the article No. with the rope diameter „ . . .”

shackle, material 1.4401

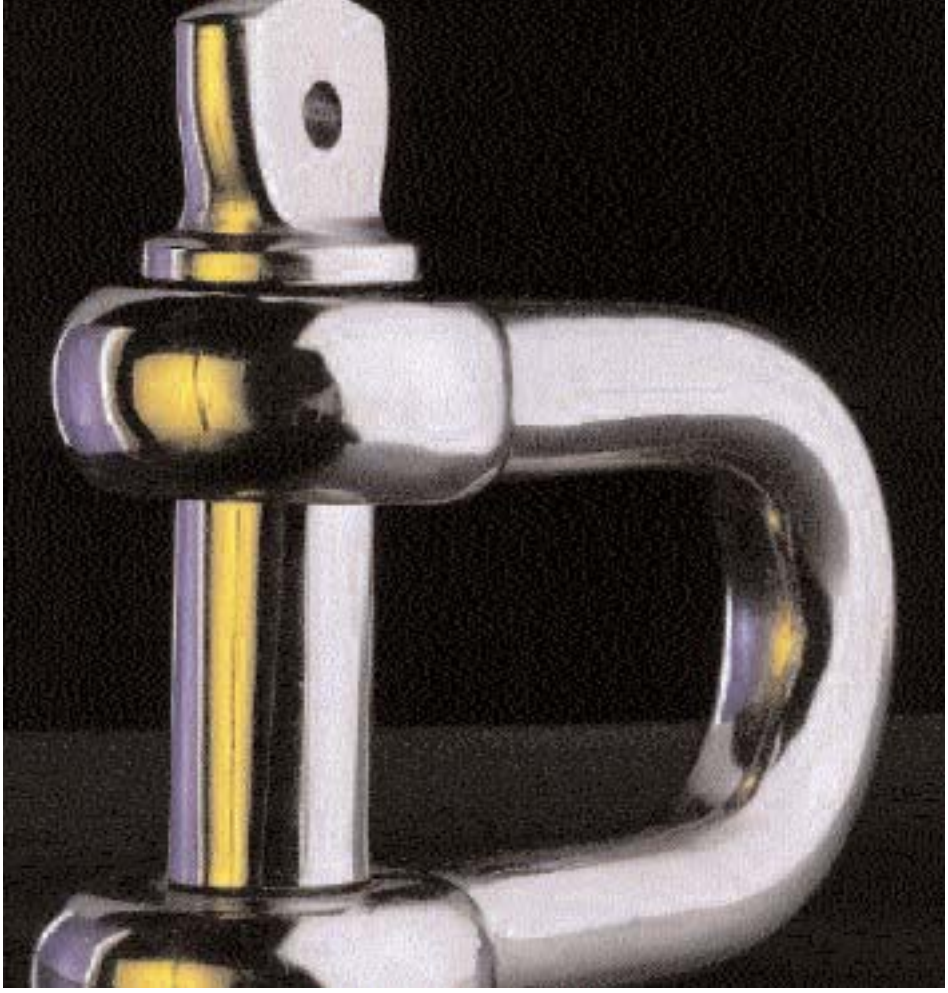
article No.	bolt mm	breaking load ca. kg	inside width x hight mm	price/piece EUR
1420 1007	4	700	8 x 14	2,90
1420 1016	5	1000	10 x 17	3,45
1420 1019	6	1500	13 x 21	4,00
1420 1030	8	2800	16 x 23	4,65
1420 1048	10	3800	19 x 38	6,25
1420 1075	12	6000	26 x 42	11,00
1420 1135	16	10000	32 x 51	22,50
1420 1210	20	15000	37 x 61	45,00

snap hook, INOX

article No.	length x diameter mm	lifting capacity kg not obligatory	price/piece EUR
1410 1100	50 x 5	100	2,50
1410 1150	60 x 6	150	2,55
1410 1200	70 x 7	200	3,15
1410 1300	80 x 8	300	3,80
1410 1400	100 x 10	400	5,35
1410 1500	120 x 11	500	7,75

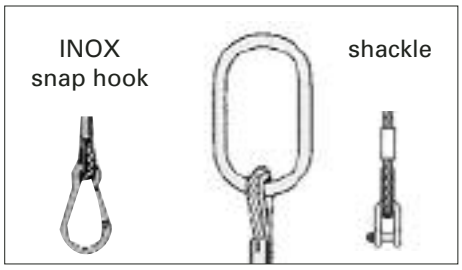
eye hook, INOX

article No.	lifting capacity kg	weight kg	price/piece EUR
1410 3906	750	0,350	52,70
1410 3908	1250	0,810	73,15
1410 3910	2000	1,370	122,45
1410 3913	2800	2,800	229,80
1410 3916	5000	5,300	342,15



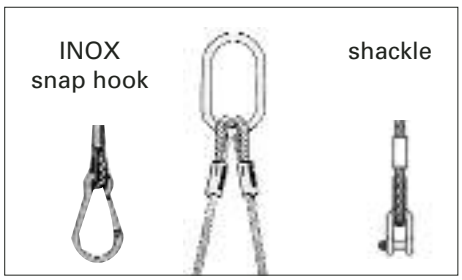
Alloy steel sling suspensions of 1 – 4 legs, with snap hook or shackle

DoVier



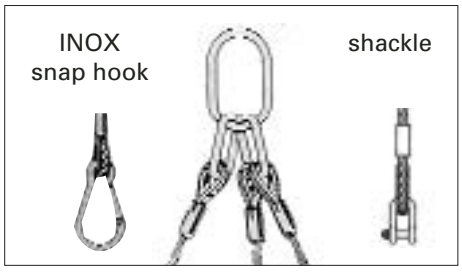
DoVier – 1 leg suspension of alloy steel

lifting capacity in kg angle of inclination 0°	nominal rope diameter	article No. with INOX snap hook	price EUR	article No. with shackle	price EUR	price per any add. meter EUR
200	5	2403 0501	18,05	2404 0501	18,25	2,20
300	6	2403 0601	19,20	2404 0601	19,30	3,10
500	8	2403 0801	26,10	2404 0801	26,40	4,30
750	10	2403 1001	71,20	2404 1001	58,30	7,10
1200	12	2403 1201	104,30	2404 1201	79,30	9,90



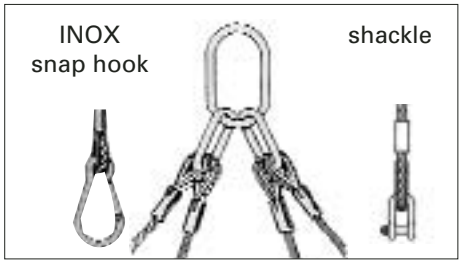
DoVier – 2 legs suspension of alloy steel

lifting capacity in kg angle of inclination 0° - 45°	45 - 60°	nominal rope diameter	article No. with INOX snap hook	price EUR	article No. with shackle	price EUR	price per any add. meter EUR
280	200	5	2403 0502	28,90	2404 0502	29,30	4,40
420	300	6	2403 0602	33,60	2404 0602	35,80	6,20
700	500	8	2403 0802	46,40	2404 0802	47,00	8,60
1050	750	10	2403 1002	128,60	2404 1002	103,00	14,20
1680	1200	12	2403 1202	191,45	2404 1202	141,45	19,80



DoVier – 3 legs suspension of alloy steel

lifting capacity in kg angle of inclination 0° - 45°	45 - 60°	nominal rope diameter	article No. with INOX snap hook	price EUR	article No. with shackle	price EUR	price per any add. meter EUR
420	300	5	2403 0503	42,10	2404 0503	42,70	6,60
630	450	6	2403 0603	49,40	2404 0603	49,70	9,30
1050	750	8	2403 0803	75,90	2404 0803	76,80	12,90
1575	1125	10	2403 1003	193,75	2404 1003	155,05	21,30
2520	1800	12	2403 1203	290,60	2404 1203	215,60	29,80

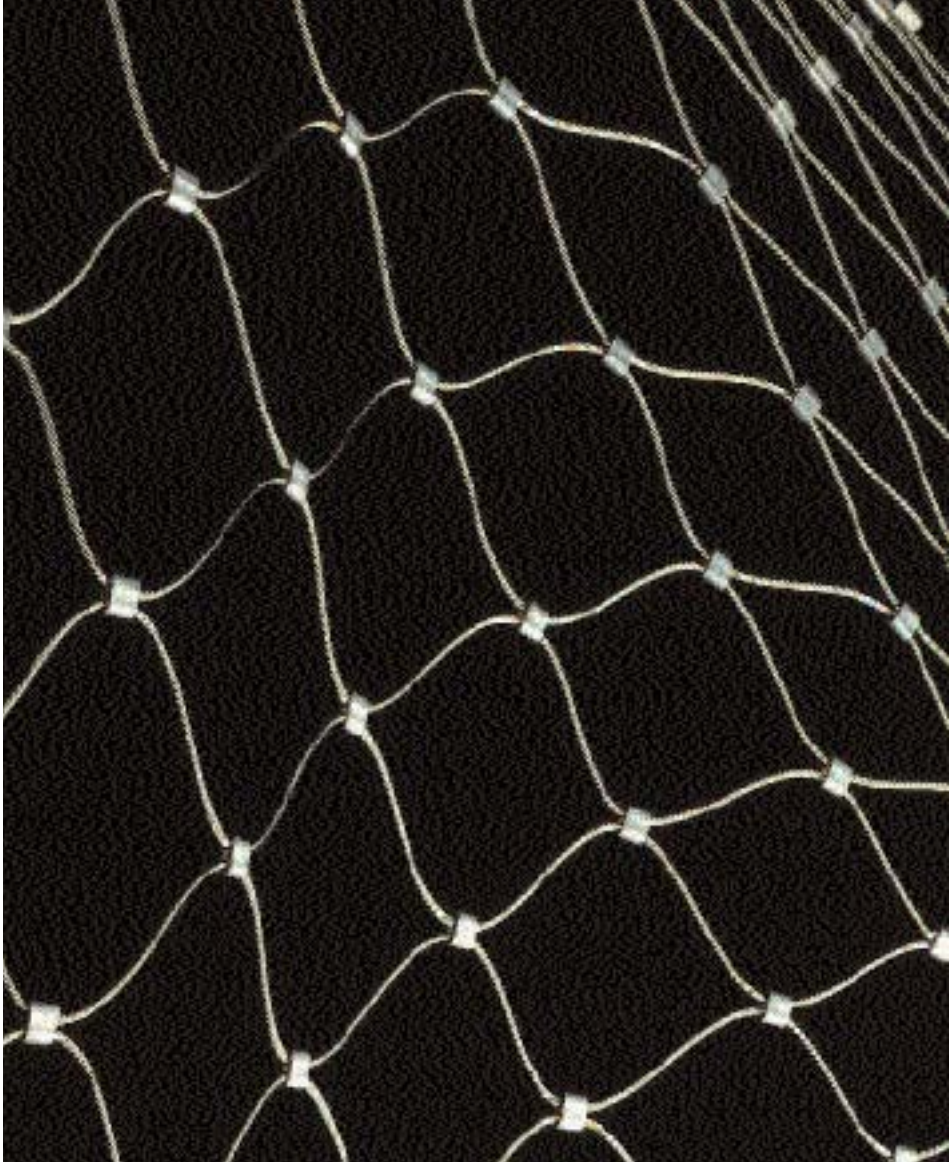


DoVier – 4 legs suspension of alloy steel

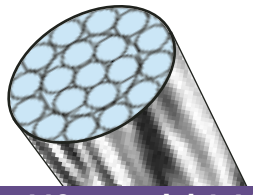
lifting capacity in kg angle of inclination 0° - 45°	45 - 60°	nominal rope diameter	article No. with INOX snap hook	price EUR	article No. with shackle	price EUR	price per any add. meter EUR
420	300	5	2403 0504	56,00	2404 0504	56,80	8,80
630	450	6	2403 0604	65,80	2404 0604	66,20	12,40
1050	750	8	2403 0804	101,50	2404 0804	102,70	17,20
1575	1125	10	2403 1004	247,25	2404 1004	195,65	28,40
2520	1800	12	2403 1204	374,75	2404 1204	274,75	39,60

Alloy steel ropes

DoVier



Edelstahl Rostfrei (stainless alloy steel), is because of its corrosion resistance, strength, sturdiness and formability, as a durable and economical solution specially suitable for creative purposes. Further advantages result of its chemical resistance and the possibility of applying it in the chemical industry or within the alimentary sector.

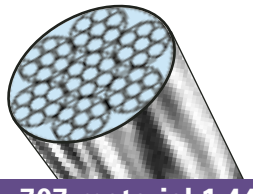


DoVier 119 material 1.4401
Steel wire rope 1 x 19 wires

article No.	nominal ø mm	kg/ m	min. breaking load kN	price per m **EUR**
0419 0101	1,0	0,005	0,825	0,26
0419 0151	1,5	0,011	1,86	0,36
0419 0201	2,0	0,020	3,3	0,40
0419 0301	3,0	0,045	7,42	0,74
0419 0401	4,0	0,079	13,2	1,24
0419 0501	5,0	0,124	20,6	1,86

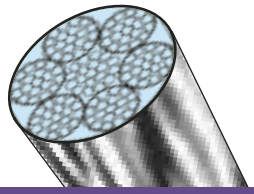
Stainless alloy steel is a collective name of a group of over 100 stainless and chemical resistant. The five steel materials most frequently applied for architectural purposes represent the following properties:

material No.	symbols	chemical compound (mass contents in %) C	Cr	Mo	Ni	others
1.4016	X6Cr 17	≤ 0,08	16,0 / 18,0	—	—	—
1.4301	X6Cr Ni18-10	≤ 0,07	17,0 / 19,5	—	8,0 / 10,5	N ≤ 0,11
1.4401	X6Cr NiMo17-12-2	≤ 0,07	16,5 / 18,5	2,0 / 2,5	10,0 / 13,0	N ≤ 0,11
1.4541	X6Cr NiTi18-10	≤ 0,08	17,0 / 19,0	—	9,0 / 12,0	Ti6xC bis 0,70
1.4571	X6Cr NiMoT17-12-2	≤ 0,08	16,5 / 18,5	2,0 / 2,5	10,5 / 13,5	Ti6xC bis 0,70



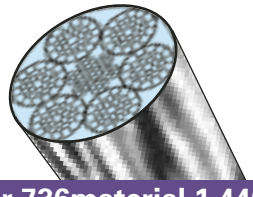
DoVier 707 material 1.4401
Steel wire rope 7 x 7 wires

article No.	nominal ø mm	kg/ m	min. breaking load kN	price per m **EUR**
0407 0107	1,0	0,005	0,56	0,48
0407 0207	2,0	0,016	2,25	0,54
0407 0307	3,0	0,035	5,06	1,06
0407 0407	4,0	0,063	9,04	1,50
0407 0507	5,0	0,098	13,2	2,08
0407 0607	6,0	0,142	20,3	2,68



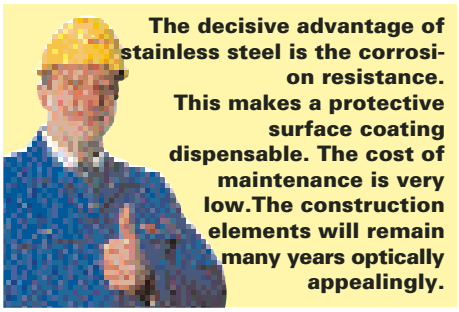
DoVier 719 material 1.4401
Steel wire rope 7 x 19 wires

article No.	nominal ø mm	kg/ m	min. breaking load kN	price per m **EUR**
0419 0207	2,0	0,015	2,09	1,06
0419 0307	3,0	0,034	4,70	1,38
0419 0407	4,0	0,061	8,30	1,82
0419 0507	5,0	0,095	13,0	2,20
0419 0607	6,0	0,138	18,8	3,06
0419 0807	8,0	0,243	33,3	4,20



DoVier 736material 1.4401
Steel wire rope 3 x 36 wires, IWRC

article No.	nominal ø mm	kg/ m	min. breaking load kN	price per m **EUR**
0436 1007	10,0	0,422	55,85	6,00
0436 1207	12,0	0,602	80,60	7,10
0436 1407	14,0	0,820	109,00	15,90
0436 1607	16,0	1,070	143,00	22,50
0436 1807	18,0	1,350	181,00	25,70
0436 2007	20,0	1,670	221,00	28,40
0436 2407	24,0	2,410	332,00	on demand!



The decisive advantage of stainless steel is the corrosion resistance. This makes a protective surface coating dispensable. The cost of maintenance is very low.The construction elements will remain many years optically appealingly.

Accessories

Thimbles, material 1.4401

article No.	groove width mm	internal width & length mm	price per piece EUR
1430 1002	2	7 x 10	0,41
1430 1003	3	9 x 15	0,43
1430 1004	4	11 x 18	0,74
1430 1005	5	14 x 20	0,77
1430 1006	6	15 x 23	1,10
1430 1008	8	18 x 29	2,07
1430 1010	10	24 x 37	2,91
1430 1012	12	28 x 47	4,45

Clamps, material 1.4401

article No.	for rope ø mm	required number of clamps	price per piece EUR
1440 1002	2	3	2,50
1440 1003	3	3	2,55
1440 1004	4	3	2,60
1440 1005	5	3	2,65
1440 1006	6	3	3,10
1440 1008	8	4	3,50
1440 1010	10	4	5,60
1440 1012	12	4	9,00

turnbuckles, material 1.4401

article No.	thread	rigging ditance ca. mm	price per piece EUR
148. 0004	M 4	75	6,95
148. 0005	M 5	90	7,05
148. 0006	M 6	110	9,00
148. 0008	M 8	140	13,35
148. 0010	M 10	180	19,60
148. 0012	M 12	225	33,85
148. 0016	M 16	290	73,00
148. 0020	M 20	340	106,00

0 = 2 eyes, 1 = hook + eye, 2 = 2 hook

Terminal riggs, material 1.4401

article No.	thread	rigging distance ca. mm	price per piece EUR
1460 2 .05	M 5	60	13,55
1460 2 .06	M 6	70	15,50
1460 2 .08	M 8	75	23,40
1460 2 .10	M 10	80	29,55
1460 2 .12	M 12	115	46,35
1460 2 .14	M 14	125	55,15
1460 2 .16	M 16	140	77,10
1460 2 .20	M 20	170	148,00

0 = 2 fork, 2 = thread/fork, 3 = 2 thread

Ring bolt, material 1.4301

article No.	thread	L1 mm	width inside mm	price per piece EUR
1490 6106	M 6	8	15	3,05
1490 6108	M 8	17	17	4,20
1490 6110	M 10	17	25	6,35
1490 6112	M 12	21	30	9,30
1490 6116	M 16	27	35	13,50
1490 6120	M 20	30	40	28,70
1490 6124	M 24	36	50	41,35

Ring nut, material 1.4301

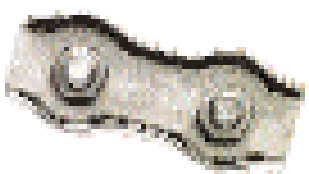
article No.	thread	width inside mm	price per piece EUR
1490 7206	M 6	14	2,85
1490 7208	M 8	20	3,70
1490 7210	M 10	25	5,75
1490 7212	M 12	27	7,75
1490 7216	M 16	34	12,90
1490 7220	M 20	40	21,95
1490 7224	M 24	50	36,30

Simplex-clamps, material 1.4571

Art.-Nr.	for nominal rope diameter	screw thread	price per piece EUR
1440 2002	2 - 2,5	M 3	0,75
1440 2003	3 - 3,5	M 4	0,90
1440 2004	4 - 4,5	M 5	1,35
1440 2005	5 - 5,5	M 5	1,75
1440 2006	6 - 6,5	M 6	2,50
1440 2007	7 - 7,5	M 6	4,00
1440 2008	8 - 8,5	M 8	4,50

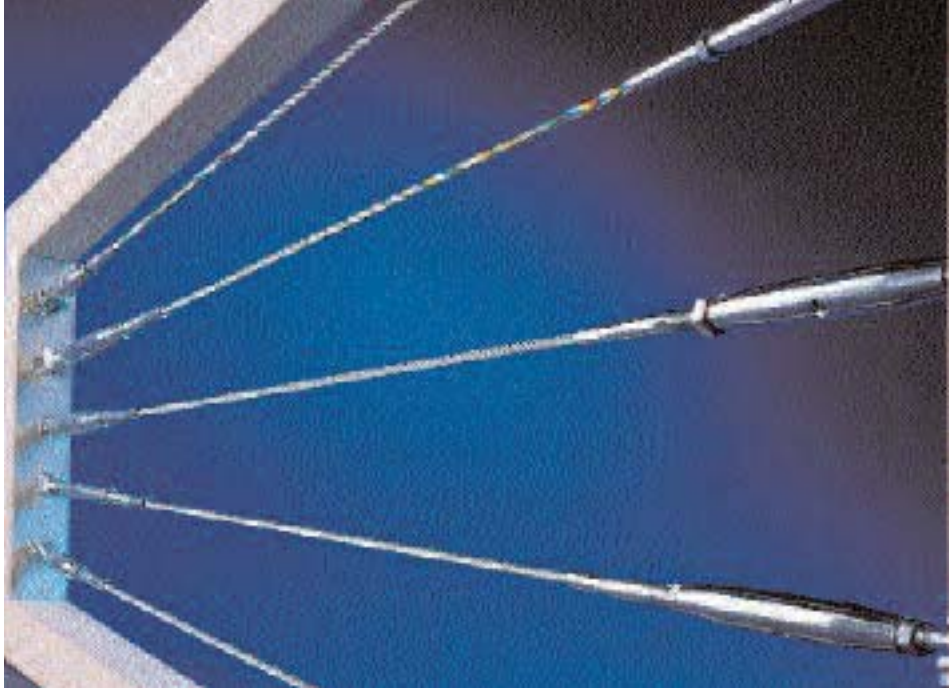
Duplex-Clamps, material 1.4571

Art.-Nr.	for nominal rope diameter	screw thread	price per piece EUR
1440 3002	2 - 2,5	M 3	1,45
1440 3003	3 - 3,5	M 4	1,90
1440 3004	4 - 4,5	M 5	2,90
1440 3005	5 - 5,5	M 5	3,40
1440 3006	6 - 6,5	M 6	4,70
1440 3007	7 - 7,5	M 6	7,10
1440 3008	8 - 8,5	M 8	7,90
1440 3010	10 - 11	M10	14,20



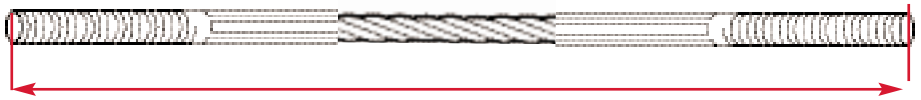
Measuring points

Dolezych

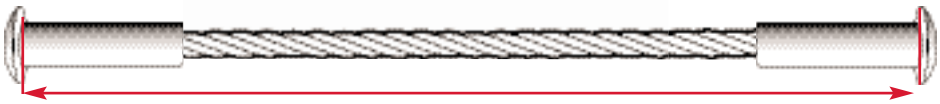


In case of guy ropes with threaded terminals such, as threaded resp. internally threaded terminal, measurements are made "of everything".

It is recommended, due to optical reasons, to select such a ready made length that in case of the external thread, the transition from the pressing shaft and thread will remain in the post. Please adapt at passage posts the boreholes to the possibly available key surfaces. In case of a terminal of internal thread, please take care that some rigging distance will remain available in the post.

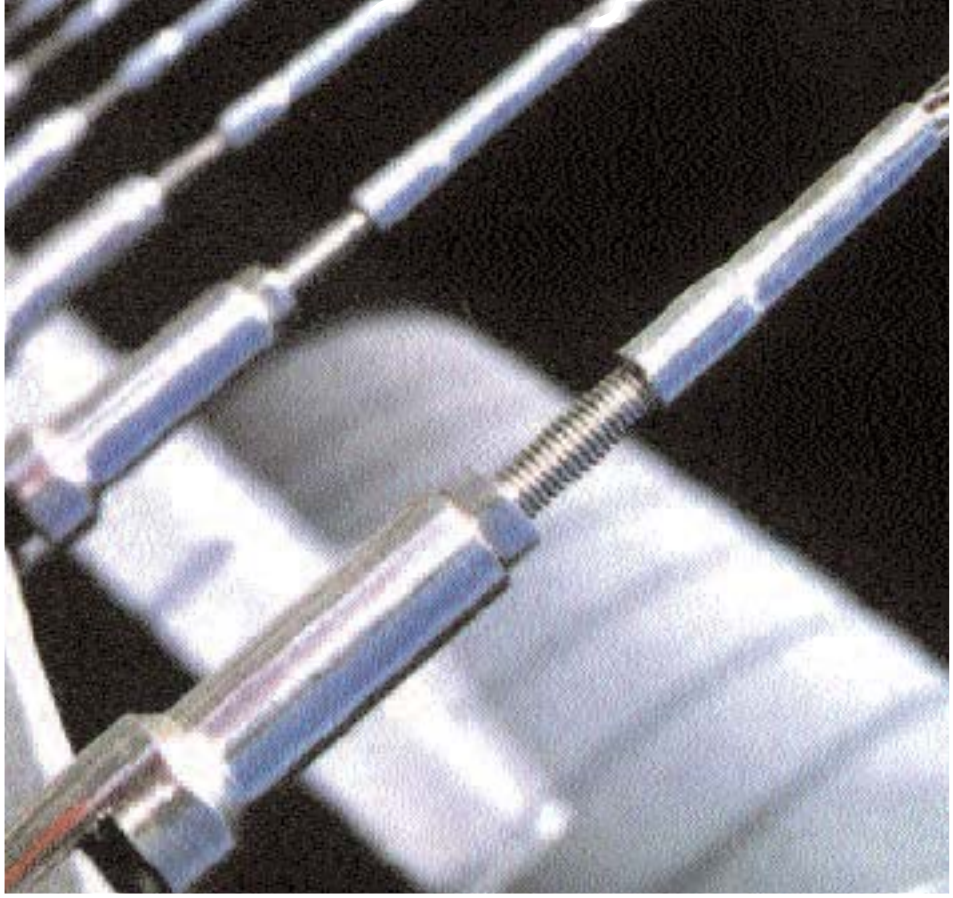


In case of terminals with a head, like fillister head or flat head terminal, these terminal heads are the measuring points.



Ropes with terminals for catching bolts, like eye or fork terminals are always measured from the center of one bolt to another.

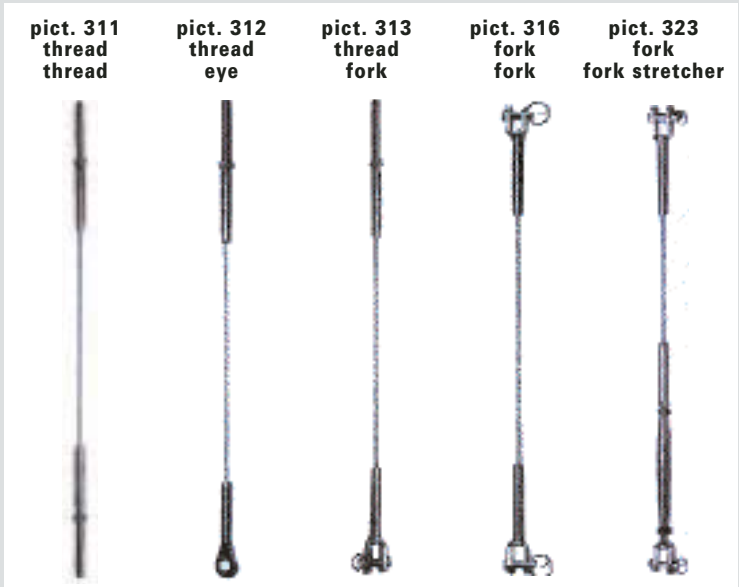
In case of stretchable ropes with terminal stretchers, they are permanent deliverable, with half screwed in thread.



Ropes for architectural purposes ready made for application

DeStructa

Guy ropes



nominal rope diameter	price per 1 m of effective length					price per any add. meter
mm	2411...1 EUR	2412...1 EUR	2413...1 EUR	2416...1 EUR	2423...1 EUR	EUR
2,5	10,90	9,90	10,65	10,95	16,35	0,80
3,0	12,15	10,90	12,45	12,80	18,10	1,10
4,0	14,30	13,30	14,70	15,20	22,75	1,60
5,0	18,10	16,65	18,55	19,00	28,20	2,10
6,0	25,75	22,20	25,20	26,25	45,90	2,70
8,0	40,50	37,00	41,80	42,95	72,50	4,20
10,0	59,80	52,40	65,30	70,80	136,50	6,50

Please take into consideration that the length of rope without a thread must be smaller than the external distance between the posts being stretched. You will achieve an optimum stretching when a few threads will remain inside the post!

Example of order:

This is what you would like to order:
1 piece of guy rope, picture 311,
rope Ø 2,5 mm,1 m of effective length

And so should be your order:
1 piece article No. 2411 0251,
1 m of effective length.

Threaded terminals are the ideal end connection for tightening between the post (e.g. in case of stair balustrades). The bore hole in the post is to be measured in such a way, that the thickest place of the threaded terminal – usually the bulge on the lock surface – will get through the hole.

Ready completed guy ropes with threaded terminals of standard measures (thread size = double rope diameter) achieve under tensile tests breaking loads of 85% up to 90% of those of a not completed rope.

Because of aesthetic reasons, threaded terminals of smaller sizes are applied **particularly in interiors**. Here the relation of rope diameter to thread size is reduced to the values of 1 : 1,3 up to 1 : 1,25.When applying such thin terminals, the breaking load values are limited to ca. 50 to 75% of rope breaking load.

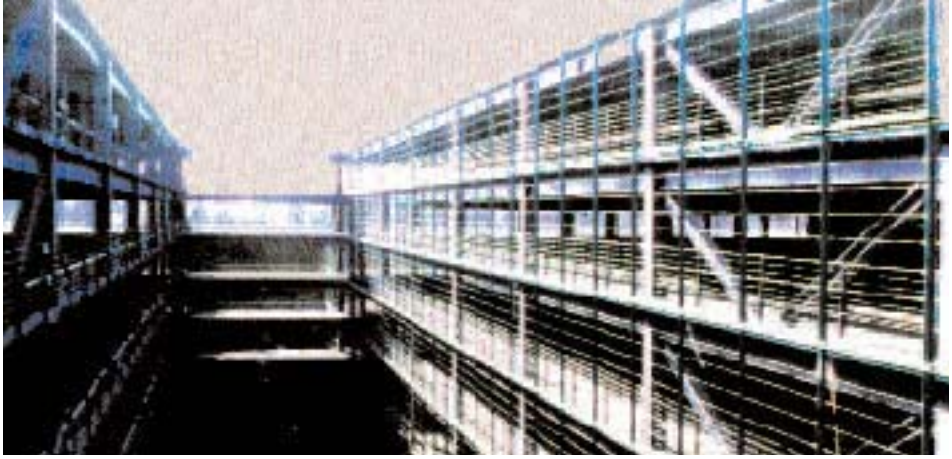
Eye and fork terminals are favoured connecting elements to the on construction site existing fork connections or clamp couplings. No special tools are necessary for coupling to the construction element by means of a simple bolt connection. Such bolt connections may have varying angles.

When the angles are right-angled, the fillister head terminals create a nice looking finish. One should take care in this connection that – depending on the type of the fillister heads' construction – they practically can be applied on one side only. On the other side usually a threaded terminal is installed, which goes through the post and then it is tightened by a nut.

Another variant for the right angled post connection offer internally threaded terminals. This solution permits connecting with each other, in a nice looking way two ropes via a threaded rod going through the post. The assembly is made at the final post by means of screws, depending on one's taste – by cylinder head, fillister head or flat head screws.

DoAktiv ropes for architectural purposes ready made for application

DoStructa



What is a DoActive terminal?

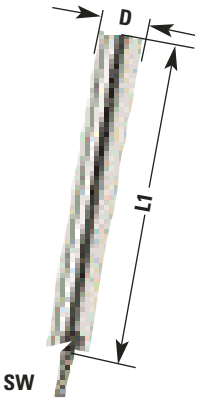
An on the guy rope turning internally or externally threaded screw sleeve. At the same time, this turning on the rope is a great advantage, as compared with threaded terminals of traditional construction. So, e.g. it is possible, by applying the DoActive terminals, to tighten a rope between two posts without twisting the rope. The DoActive terminals may be excellently combined with customary connecting elements. So you can use with internally threaded terminals - threaded forks, threaded eyes, threaded rods and screws with the most different head shapes.

DoActive terminals externally threaded can be easily screwed directly into studbolts or threaded pipe constructions. In connection with a cap nut, which first is to be broached onto the rope, one can achieve a very nice looking finish.

Optionally the free section between the connecting element and the outer edge of DoActive terminal can be formed by a DoActive connecting sleeve.

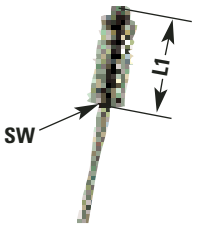
DoActive terminal, internally threaded

article No.	direction	rope ø	SW	L1	D
3411 0301	to the right	3,0	9	60	10
3411 0401	to the right	4,0	10	70	12
3411 0501	to the right	5,0	13	80	15
3411 0601	to the right	6,0	17	100	18
3411 0801	to the right	8,0	19	125	22



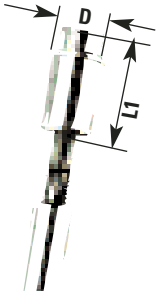
DoActive terminal, internally threaded

article No.	direction	rope ø	SW	L1	thread
3451 0301	to the right	3,0	8	60	M 10
3451 0401	to the right	4,0	10	70	M 12
3451 0501	to the right	5,0	13	80	M 16
3451 0601	to the right	6,0	17	100	M 20
3451 0801	to the right	8,0	19	125	M 24



DoActive terminal, connecting sleeve

article No.	L1	D
1492 1206	20	12
1492 1508	20	15
1492 1810	25	18
1492 2012	30	20
1492 2414	30	24



pict. 411
2x internally threaded

pict. 412
2x externally threaded

pict. 413
2x internally threaded with connecting sleeve

nominal rope diameter	price per 1 m of effective length			
mm	3411 . . . 1 **EUR**	3412 . . . 1 **EUR**	3413 . . . 1 **EUR**	price add. meter **EUR**
3,0	31,85	22,90	40,80	1,10
4,0	35,40	25,80	46,00	1,60
5,0	41,30	32,50	53,85	2,10
6,0	50,40	41,50	63,85	2,70
8,0	61,80	56,45	76,90	4,20

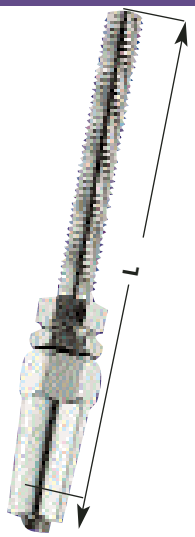
Please complete the article No. with the rope diameter" ..."

Self locking terminals for "on site assembly"

DoStructa

Thread terminal

article No.	for rope diameter	thread	thread length mm	total length, assembled. mm	price/piece EUR
1490 9246	4	M6 to the right	47	92	29,30
9490 9246	4	M6 to the left	47	92	29,30
1490 9248	4	M8 to the right	57	102	29,30
9490 9248	4	M8 to the left	57	102	29,30
1490 9258	5	M8 to the right	57	111	30,50
9490 9258	5	M8 to the left	57	111	30,50
1490 9250	5	M10 to the right	63	117	30,50
9490 9250	5	M10 to the left	63	117	30,50
1490 9260	6	M10 to the right	63	128	39,80
9490 9260	6	M10 to the left	63	128	39,80
1490 9262	6	M12 to the right	80	145	39,80
9490 9262	6	M12 to the left	80	145	39,80
1490 9282	8	M12 to the right	80	162	56,65
9490 9282	8	M12 to the left	80	162	56,65
1490 9284	8	M14 to the right	89	171	62,20
9490 9284	8	M14to the left	89	171	62,20
1490 9286	8	M16 to the right	100	182	68,40
9490 9286	8	M16 to the left	100	182	68,40
1490 9206	10	M16 to the right	100	188	78,40
9490 9206	10	M16 to the left	100	188	78,40

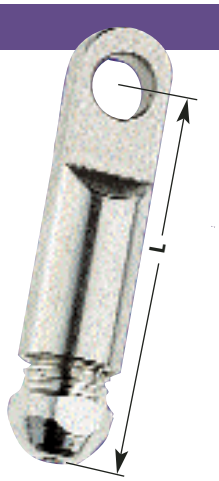


Self locking terminals

are an innovative line of products which enable the user to combine on site a ready for application rope, without any specialized tools.
The self locking terminals are suitable for the rope structure Spiral Rope DoVier 119, round strand ropes DoVier 707 and DoVier 719. Even a connection with steel bars is possible. The self locking terminals are available in the popular variants of thread terminal, fork terminal and eye terminal.

Eye terminal

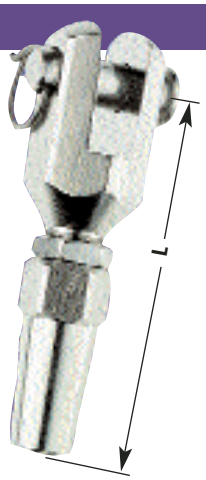
Article No.	for rope diameter	drilled eye hole mm	total length L assembled mm	price per piece EUR
1490 9004	4	8,3	58	24,90
1490 9005	5	10,3	70	28,60
1490 9006	6	12,3	83	36,70
1490 9008	8	14,3	103	50,40
1490 9010	10	16,3	114	75,25

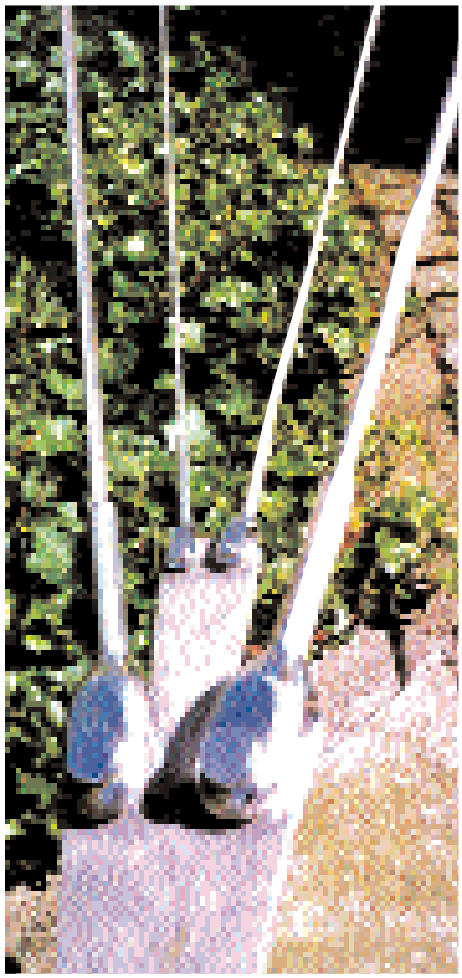


Assembly instruction: the tapered nut is to be slid over the rope .The taper is to be slid over the rope. Brass ring is to be fixed at rope end. The rope should be protruding 5mm out of it. The tapered nut is to be slid over the taper. The tapered nut is to be screwed down with the taper. Counter this connection by means of a check nut. Having some training you may assemble a self locking terminal in less than 10 seconds.

Fork terminal

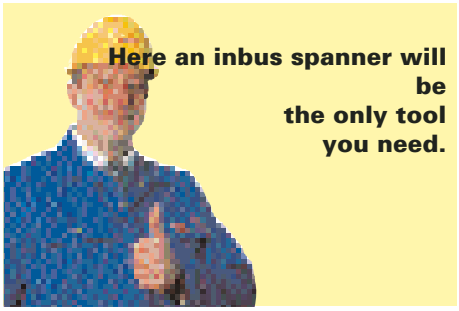
Article No.	for rope diameter	fork bolt mm	fork inside width mm	inside hight mm	total length L assembled mm	price per piece EUR
1490 9104	4	8	8	8	62	29,85
1490 9105	5	10	10	10	72	35,45
1490 9106	6	12	12	12	82	45,40
1490 9108	8	14	14	14	103	78,75
1490 9110	10	16	16	16	115	92,10





Screw terminals for "on site assembly"

DoStructa



Screw terminal

article no.	for rope diameter	thread	length of thread mm	total length assembled mm	price/piece EUR
1470 2542	2	M4 to the right	20	50	11,75
9470 2542	2	M4 to the left	20	50	11,75
1470 2543	3	M4 to the right	20	56	12,70
9470 2543	3	M4 to the left	20	56	12,70
1470 2554	4	M5 to the right	25	65	13,75
9470 2554	4	M5 to the left	25	65	13,75
1470 2546	3+4	M6 to the right	25	70	8,45
9470 2556	5	M6 to the left	25	70	8,95

Internally threaded terminal

article no.	for rope diameter	thread	length of thread mm	total length assembled mm	price/piece EUR
1470 2562	2	M4 to the right	20	50	11,75
9470 2562	2	M4 to the left	20	50	11,75
1470 2563	3	M4 to the right	20	56	12,70
9470 2563	3	M4 to the left	20	56	12,70
1470 2574	4	M5 to the right	25	65	13,75
9470 2574	4	M5 to the left	25	65	13,75
1470 2564	3+4	M6 to the right	25	70	8,95
1470 2565	5+6	M6 to the left	25	70	10,45

Eye terminal

article no.	for rope diameter	bored eye mm	total length assembled mm	price/piece EUR
1470 2512	2	4,5	37	11,15
1470 2513	3	5,5	43	11,75
1470 2514	4	6,5	52	12,85

Fork terminal

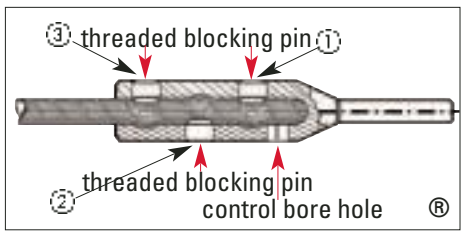
article no.	for rope diameter	fork bolt mm	fork inside width mm	inside hight mm	totally assembled mm	price per piece EUR
1470 2522	2	M 4	4,5	7	37	11,60
1470 2523	3	M 4	5,5	9	50	12,55
1470 2524	4	M 5	6,5	9	52	13,50

Advantages:

For on the spot assembly purposes, the screw terminals shown here are also most suitable. They are especially applicable, where the system breaking load does not play a decisive role, because the breaking load which may be achieved does not reach the one of the press terminal. The appropriate rope structures are DoVier 707 and DoVier 719.Variants which may be supplied are screw terminals externally and internally threaded, eye terminals and fork terminals.

Installation instruction:

The end of rope is to be pushed as long into the terminal hole, until it will be visible in the control bore hole.
Threaded blocking pins are to be screwed in in the order 1, 2 and 3. We recommend the twisting moment 5 Nm. After installation check through the control bore hole once again the correct fixing of rope end.



Design rope tightening sets for self-made assembly

DeStructa

Design rope tightening set

Material 1.4305, K 240
for ropes Ø 4 mm immersion or adapting piece Ø 12 mm,
with M 6 x 8 screw.

Skewness up to 90° may be achieved by bending at required place by hand resp. with the help of a lever.

Basic version, M6 thread, no tightening screw, with 3-fold rope clamping 12 x 60 mm

article no.	price per piece **EUR**
5410 4250	15,85

article no.	price per piece **EUR**
5410 4200	33,35

article no.	price per piece **EUR**
5410 4210	46,60

With M6 thread, blocking screw M6x50, as well as with ring washer

article no.	price per piece **EUR**
5410 4260	45,90

article no.	price per piece **EUR**
5410 4220	54,65

article no.	price per piece **EUR**
5410 4230	58,00

Decorative adapter piece 1.4301, K 240, for pipe 42,4 mm, 12mm hole

article no.	price **EUR**
5410 4240	8,85

Blocking screw VZ M6 x 50 mm

article no.	price **EUR**
5410 0190	0,30

Rope tightening sets for self-made assembly Accessories

DeStructa

For precision grinding of components, surface polishing inclusive, are applied abrasives of a K 240 up to K 320 of abrasive grain. They produce grooveless, dull lustre or bright polish surfaces.

Rope tightening set of 6 elements, K 240 mat for rope Ø 4 mm with the application of a alloy steel pipe of 42,4 mm

4 mm rope clamp, tightening nut, joint, 1 pair of spacer washers, cap nut and threaded pin M6 x 60 mm

article no.	price per set **EUR**
5410 2300	45,95

Rope tightening set of 4 elements, K 240 with the application on wood (for flat assembly)

Rope clamp of 4 mm, tightening nut, joint and blocking screw

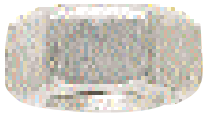
article no.	price per set **EUR**
5410 2390	45,95

tightening nut		joint		rope clamp	
alloy steel		alloy steel M12 x 1 mm / M6		alloy steel for 4 mm rope	
article no.	price **EUR**	article no.	price **EUR**	article no.	price **EUR**
4510 2310	21,15	4510 2320	24,10	4510 2330	4,35

rope pass		rope 4 mm		space washers	
alloy steel M6		1.4401, 7 x 7 SZ		for 42,4 / 2 mm rope	
article no.	price **EUR**	article no.	price per meter **EUR**	article no.	price **EUR**
4510 2360	9,85	0407 0407	1,50	4510 2350	7,65

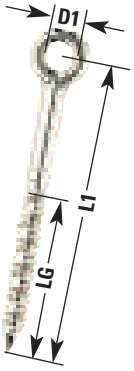
Hexagon nut DIN 934 material 1.4401

article no.	thread	thread direction	price per piece EUR
1475 1002	M 5	to the right	0,25
9475 1002	M 5	to the left	0,25
1475 1003	M 6	to the right	0,30
9475 1003	M 6	to the left	0,30
1475 1004	M 8	to the right	0,40
9475 1004	M 8	to the left	0,40
1475 1005	M 10	to the right	0,50
9475 1005	M 10	to the left	0,50
1475 1006	M 12	to the right	1,20
9475 1006	M 12	to the left	1,20
1475 1008	M 16	to the right	2,00
9475 1008	M 16	to the left	2,00
1475 1010	M 20	to the right	3,60
9475 1010	M 20	to the left	3,60
1475 1012	M 24	to the right	on request
9475 1012	M 24	to the left	on request

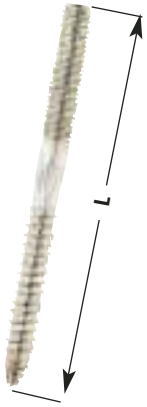


Eye bolt with thread for wood, material 1.4401

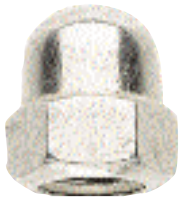
Article no.	L1	LG	D1	price per piece EUR
1499 1206	55	32	6,0	3,10
1499 1208	60	40	8,0	3,90
1499 1210	80	55	10,0	8,40
1499 1212	100	65	12,0	10,50



article no.	thread	thread direction	L	price per piece EUR
1476 9608	M 6	to the right	80	3,90
1476 9810	M 8	to the right	100	4,25
1476 9012	M 10	to the right	120	4,40

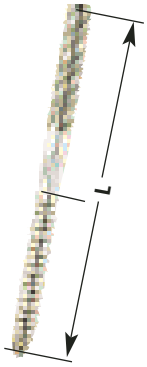


Cap nut DIN 1587, material 1.4401

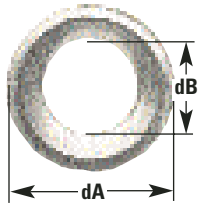


article no.	thread	thread direction	price per piece EUR
1475 1202	M 5	to the right	0,90
1475 1203	M 6	to the right	1,20
1475 1204	M 8	to the right	1,75
1475 1205	M 10	to the right	2,10
1475 1206	M 12	to the right	2,50
1475 1208	M 16	to the right	3,50
1475 1210	M 20	to the right	5,80
1475 1212	M 24	to the right	16,80

Threaded pin with key surface, material 1.4401



article no.	thread	thread direction	LG	L1	price per piece EUR
1476 8630	M 6	ri./le.	30	65	2,60
1476 8830	M 8	ri./le.	30	65	4,00
1476 8030	M10	ri./le.	30	65	5,00



article no.	dB	dA	S	price per piece EUR
1477 1005	5,3	10,0	1,0	0,08
1477 1006	6,4	12,5	1,6	0,13
1477 1008	8,4	17,0	1,6	0,23
1477 1010	10,5	21,0	2,0	0,36
1477 1012	13,0	24,0	2,5	0,43
1477 1016	17,0	30,0	3,0	0,49

Spring washer, DIN 127 B, material 1.4401

article no.	for thread	price per piece EUR
1477 3005	M 5	0,08
1477 3006	M 6	0,13
1477 3008	M 8	0,20
1477 3010	M 10	0,28
1477 3012	M 12	0,33
1477 3016	M 16	0,41
1477 3020	M 20	0,51
1477 3024	M 24	0,59

Components for balustrades and railings, alloy steel, K240, mat

DeStructa

Railing brackets with a plate for screwing down, Ø 64 mm, 12 mm pin

article no.	price per piece EUR
5460 0310	19,90

Covering rosette for railing brackets, 12,5 mm high, Ø 70 mm, bore hole 12,2 mm

article no.	price per piece EUR
5460 2600	5,95

Railing support, rounded support plate, blocking screw M8x70 mm, wall distance 70 mm, rosette 60 mm

article no.	price per piece EUR
5460 0450	18,65

Railing brackets, adjustable, Ø 64 mm, 14mm pin

article no.	price per piece EUR
5460 0300	28,50

Covering rosette for railing brackets, 12,5 mm high, Ø 70 mm, bore hole 14,2 mm

article no.	price per piece EUR
5460 2610	5,95

plate for screwing down, for M8

article no.	for pipe Ø mm	price per piece EUR
5460 0530	42,4 / 2	5,70

Railing brackets ,with M8 thread, 6 mm holes trimmed

article no.	price per piece EUR
5460 0280	13,60

Pipe brackets, rigid, with a plate for screwing down

article no.	for pipe Ø mm	price per piece EUR
5460 0550	42,4 / 2	34,05

Railing brackets for flat material and wooden hand grip

article no.	for pipe Ø mm	price per piece EUR
5460 0580	42,4 / 2	45,90

Pipe brackets with plate for screwing down and a joint piece

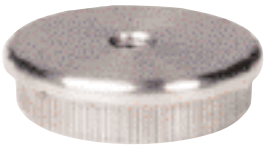
article no.	for pipe Ø mm	price per piece EUR
5460 0560	42,4 / 2	42,45

Components for balustrades and railings, alloy steel, K240, dim

DeStructa

End cap, knurled, flat, with M8 thread

article no.	for pipe Ø mm	price per piece EUR
5460 0120	42,4 / 2	9,35



End cap, knurled, convexed, with M8 thread

article no.	for pipe Ø mm	price per piece EUR
5460 0220	42,4 / 2	9,00
5460 0222	42,4 / 2,6	9,00
5460 0130	33,7 / 2,6	9,55

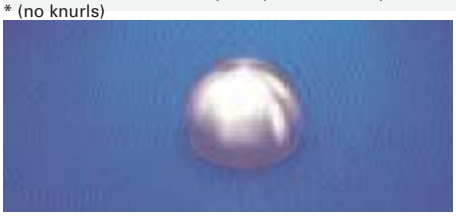
End cap, knurled, convexed, with M8 thread

article no.	for pipe Ø mm	price per piece EUR
5460 0065	42,4 / 2	10,80
5460 0066	33,7 / 2,6	10,80

End cap, knurled, flat

article no.	for pipe Ø mm	price per piece EUR
5460 0010	42,4 / 2	6,90
5460 0020	33,7 / 2,6	6,90
5460 0021	33,7 / 2,6*	6,90

* (no knurls)



End cap, knurled, convexed

article no.	for pipe Ø mm	price per piece EUR
5460 0030	42,4 / 2	7,55
5460 0031	42,4 / 2,6	7,55
5460 0040	33,7 / 2,6	7,50
5460 0041	33,7 / 2,0	7,50

End cap, knurled, convexed

article no.	for pipe Ø mm	price per piece EUR
5460 0060	42,4 / 2	9,90
5460 0070	33,7 / 2,6	8,40

End cap for welding on (welded cover), raw

article no.	for pipe Ø mm	price per piece EUR
5460 0170	42,4 / 2	1,15
5460 0172	42,4 / 3	1,25
5460 0180	33,7 / 2	1,05

End cap, empty, knurled, convexed

article no.	for pipe Ø mm	price per piece EUR
5460 0226	42,4 / 2	9,15
5460 0227	33,7 / 2,6	9,00

Plate for screwing on, for pins and pipe 42,4, size 63/25/4 mm

article no.	for pipe Ø mm	price per piece EUR
5460 0540		4,40

End cap, no knurls, convexed

article no.	for pipe Ø mm	price per piece EUR
5460 0200	25 / 2	9,15

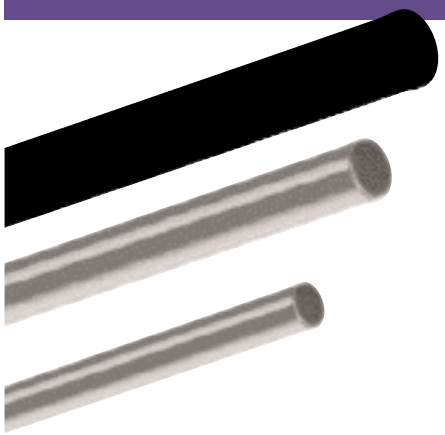
Metal glue, Loctite, bottle of 10 ml (no picture)

article no.	for pipe Ø mm	price per piece EUR
5460 1990		21,20

Components for balustrades and railings, alloy steel, K240 + 320, dim

DeStructa

Alloy steel pipes, K240 / 320, dim



article no.	pipe mm	price per piece EUR
5499 9424	42,4 / 2	20,60
5499 9337	33,7 / 2,6	20,50
5499 9250	25 / 2	14,50
5499 9200	20 / 2	13,65
5499 9160	16 / 2	13,20

In case of order please announce the requested type of granulation (p.240-320)

Distance piece, Ø 33,7mm, 40 mm

article no.	for pipe Ø mm	price per piece EUR
5460 0690	42,4 / 2	9,10
5460 0700	33,7 / 2,6	9,00

Distance piece, Ø 42,4 mm, 70 mm

article no.	for pipe connection Ø mm	price per piece EUR
5460 9020	42,4 / 2	15,90

Pipe connector, with slot

article no.	for pipe Ø mm	price per piece EUR
5460 0390	42,4 / 2	6,90
5460 0590	33,7 / 2,6	9,00

Distance piece, Ø 33,7 mm, 40 mm

article no.	for pipe connection Ø mm	price per piece EUR
5460 0680	42,4 + 33,7	15,90

Pipe connection, fitting for pipe Ø 42,4 mm

article no.	for pipe Ø mm	price per piece EUR
5460 0620	42,4 / 2	36,85

Pipe connection with screws

article no.	for pipe Ø mm	price per piece EUR
5460 0600	42,4 / 2	18,65

In case of order please announce the requested type of granulation (240 or 320).

Components for balustrades and railings, alloy steel

DeStructa

Pipe ARC, for pipe 42,4 mm/2 mm

article no.	pipe ARC °	price per piece EUR
5460 1920	90	25,90
5460 1900	180	28,15

90° ARC for welding on, unpolished

article no.	pipe size mm	radius mm, coaxial	price per piece EUR
5460 1970	42,4 / 2	45	8,30
5460 1971	33,7 / 2	35	8,30

Inserted pipe ARC with offtake, K240 or 320, dim

article no.	for pipe Ø mm	price per piece EUR
5460 1510	42,4 / 2	48,10

45° inserted pipe ARC K240 or 320, dim

article no.	for pipe Ø mm	price per piece EUR
5460 2580	42,4 / 2	39,60

90° inserted pipe ARC K240 or 320, dim

article no.	material	for pipe Ø mm	price per piece EUR
5460 2540	V4A	42,4 / 2	38,45
5460 2550	V2A	33,7 / 2	37,05

90° elbow connection, K240 or 320, dim

article no.	material	for pipe Ø mm	price per piece EUR
5460 2520	V4A	42,4 / 2	37,65
5460 2560	V2A	33,7 / 2	36,85

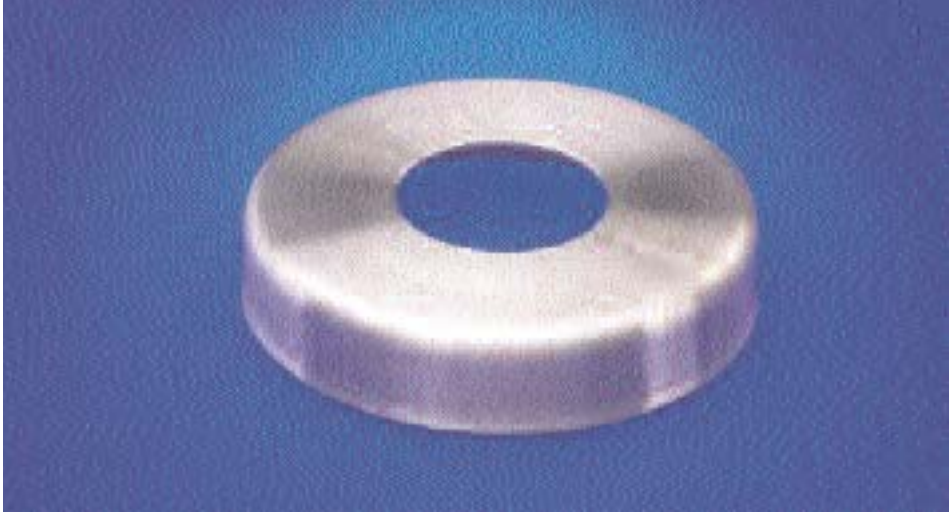
T-dividing fitting K240 or 320, dim

article no.	for pipe Ø mm	price per piece EUR
5460 2460	42,4 / 2	48,10

article no.	diameter mm	for pipe Ø mm	price per piece EUR
5460 2590	80	42,4 / 2	23,00

Components for balustrades and railings, alloy steel, K 240, dim

DeStructa



Wall and ground tie, plate

article no.	diameter mm	for pipe Ø mm	price per piece **EUR**
5460 0730	100	42,4 / 2	34,50
5460 0740	80	33,7 / 2,6	33,85

Covering rosette, for ground tie and tightening up plate, 22,5 mm high

article no.	diameter mm	for pipe Ø mm	price per piece **EUR**
5460 2620	105	42,4 / 2	9,10
5460 2630	85	33,7 / 2,66	8,85

Flat covering rosette (narrow edge, low), 14 mm high

article no.	diameter mm	for pipe Ø mm	price per piece **EUR**
5460 2631	85	42,4 / 2	8,50

Tightening up plate, raw

article no.	diameter mm	for pipe Ø mm	price per piece **EUR**
5460 0920	100	42,4 / 2	8,30

Stringer tightening up plate, for distance sleeve, lowered ferrule

article no.	dimension	price per piece **EUR**
5460 0850	85x85 mm	21,30

Wall tightening up set for pipe installation 42,4 and 33,7 mm

Alloy steel V4A, plate 100/ 6 mm with 4 bore holes – 2 bore holes on the back lowered, 9 mm, complete with 2 distance sleeves 50 / 26,9 mm and 2 inbus screws M8 / 70 mm (no sliding during the pipeinstallation by the help of the centering-hole and the centering-pins at the sleeve).

article no.	price **EUR**
5460 0841	42,60

Wall fixture

for a pipe of 42,4/2mm, 180/90 mm plate locking lip / with central hole 35 mm

article no.	price per piece **EUR**
5460 0720	105,90

Convexed stopper

article no.	for pipe Ø mm	price per piece **EUR**
5460 0250	42,4 / 2	42,10

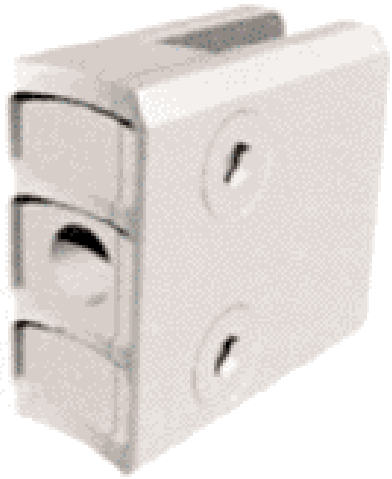
for a pipe of 42,4/2mm, 180/90 mm plate locking lip / with central hole 35 mm

article no.	price per piece **EUR**
5460 0710	39,10

article no.	length mm	for pipe Ø mm	price per piece **EUR**
5460 0860	25	42,4 u. 33,7	8,85
5460 0870	70	42,4 u. 33,7	12,05

diameter100 mm, without a distance sleeve

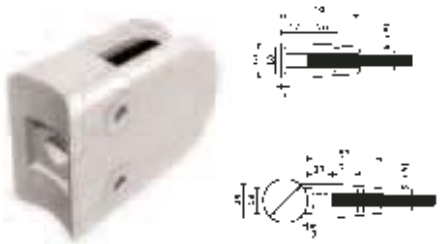
article no.	price per piece **EUR**
5460 0840	21,65



Glass fixture

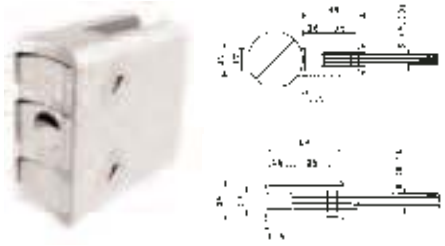
DeStructa

Glass fixture with safety pin

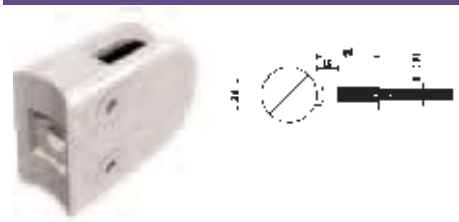


article no.	for glass thickness mm	type	connection	price per piece EUR
5460 2720	8	alloy steel effect	pipe 42,4	14,95
5460 2850	8	alloy steel effect	pipe 33,7	16,00
5460 3240	8	zinc, raw	pipe 42,4	7,95
5460 2750	8	alloy steel effect	flat	15,05
5460 3360	8	zinc, raw	flat	8,50
5460 3380	8	zinc, white	flat	11,75
5460 2761	Rubber insert for 6 mm for replacement on site			0,70

Glass fixture with safety pin

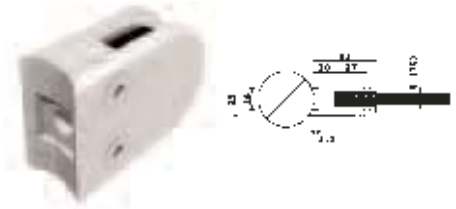


article no.	for glass thickness mm	type	connection	price per piece EUR
5460 2930	8	alloy steel effect	pipe 42,4	15,20
5460 2770	8	alloy steel effect	flat	15,90
5460 3400	8	zinc, raw	flat	9,30
5460 3411	Rubber insert for 6 mm for replacement on site			0,70



article no.	for glass thickness mm	type	connection	price per piece EUR
5460 2730	8	V4A	pipe 42,4	35,55
5460 3900	8 - 10	V4A	pipe 42,4	23,85
5460 3010	8	V4A	flat	36,35
5460 3910	8 - 10	V4A	flat	23,85
5460 3011	Rubber insert for 6 mm for replacement on site			0,70

Maxi brand glas fixture with safety pin



article no.	for glass thickness mm	type	connection	price per piece EUR
5460 2960	8	alloy steel effect	pipe 38-48	18,30
5460 2800	8	alloy steel effect	flat	18,55
5460 2970	10	alloy steel effect	38-48	19,80
5460 2810	10	alloy steel effect	flat	19,55
5460 3180	8	alloy steel V4A	38-48	38,65
5460 3190	10	alloy steel V4A	pipe 38-48	38,65
5460 3920	8 - 10	alloy steel V4A	pipe 42,5	28,55
5460 3930	8 - 10	alloy steel V4A	flat	28,55
5460 3470	8	zinc, raw	pipe 38-48	17,50
5460 3260	10	zinc, raw	pipe 38-48	17,50
5460 3440	8	zinc, raw	flat	17,50
5460 3370	10	zinc, raw	flat	17,50

fixing screw for glass fixture VZ, M8 x 20 mm

article no.	price per piece EUR
5060 0940	0,40

Components and fixtures alloy steel K 240 dim

DeStructa

Empty balls, threaded

article no.	ball diameter mm	thread	price per piece EUR
5461 6060	60	M8	25,10
5461 6075	75	M8	35,70
5461 6100	100	M10	49,85

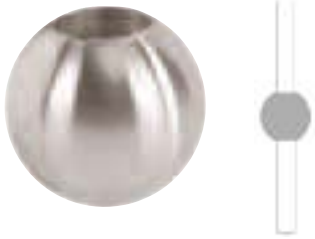
Massive balls, round glossy, dim, blind threaded

article no.	ball diameter mm	thread	price per piece EUR
5461 6015	15	M6	2,30
5461 6020	20	M6	2,90
5461 6025	25	M6	3,90
5461 6030	30	M6	5,40
5461 6040	40	M6	10,80
5461 6050	50	M6	19,70

Massive ball, threaded clearence bore hole for round material 12 and 14 mm

article no.	ball diameter mm	for round material*	price per piece EUR
5462 6030	30	14 mm	7,85
5462 6025	25	12 mm*	4,60

*(without a adjusting-screw)



Massive decorative balls, with blind hole for pasting, dim

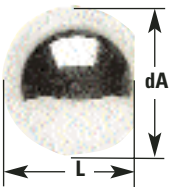
article no.	ball diameter mm	blind hole Ø	price per piece EUR
5462 6021	20	10,2	3,35
5462 6022	25	12,2	4,15
5462 6023	25	14,2	4,15

couplingpipe joint (clamping technique), for pipe 42,4 / 2-2,6 mm, adjustable 90 - 270 °

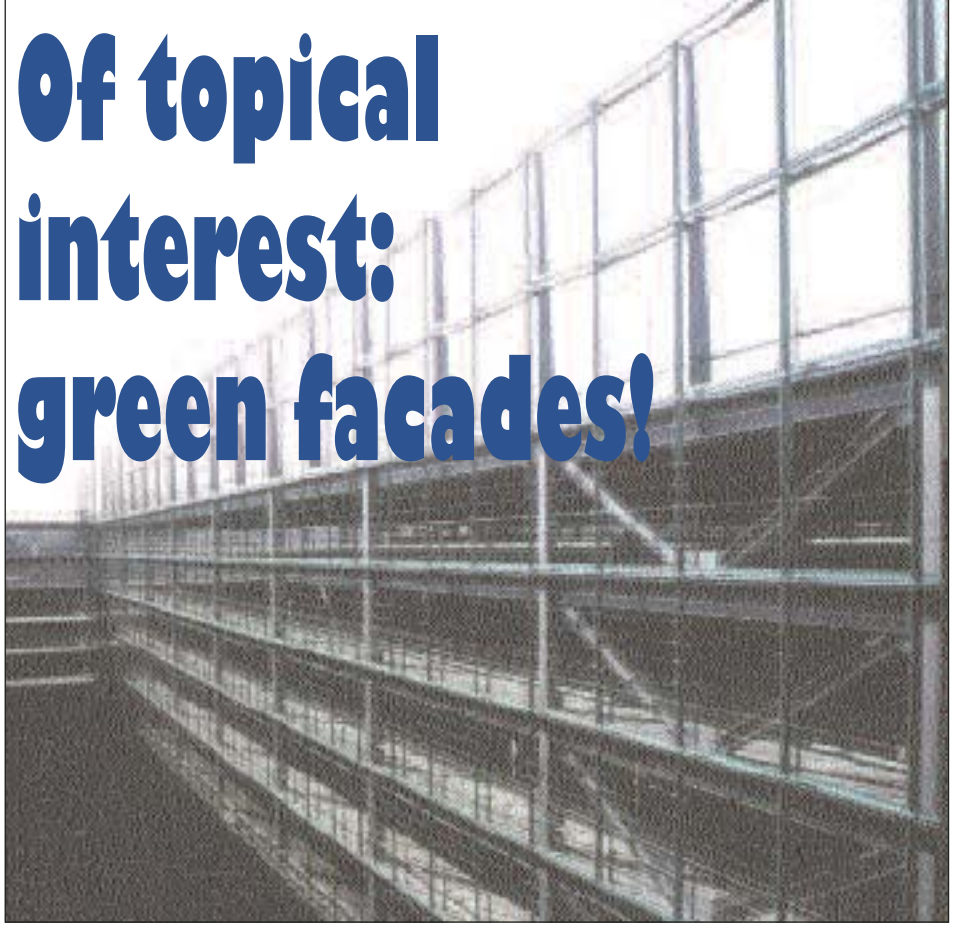
article no.	price per piece EUR
54604410	129,35

Ball nut with internal blind hole thread, material 1.4401

article no.	thread	dA	L	price per piece EUR
1477 9154	M 4	15	14,0	7,00
1477 9205	M 5	20	18,5	7,40
1477 9245	M 5	24	22,0	7,70
1477 9206	M 6	20	18,5	7,60
1477 9246	M 6	24	22,0	8,45
1477 9248	M 8	24	22,0	9,30
1477 9240	M 10	24	22,0	9,80



Of topical interest: green facades!



Trail-ropes

GreenLine

The growing building activity resulted, particularly since the mid of the 20th century, to the expulsion of nature from towns. Dwelling became priority already in the phase of planning.

Which plants are tendrils?

There exists a tremendous assortment of trailing plants. The decisive selection criterion for the appropriate creeper is not only the color of its flowers, but also: height of growth, ground requirements, positioning. Depending on the type of plant, some plants need a creeping aid, other prefer trellis, which are the decisive criterion for the selection of a trailing support.
Due to tremendous variety of creeping plants, roses, clematis and lonicera have not been listed below.

What can do the façade covering green plants ?

Facades covered with creeping plants are less exposured to temperatures than unprotected facades. They offer protection against sun and heavy rains. This way one may prevent the weather wear of facade surfaces. Facades covered by trailing plants add to improving the sound insulation. Due to the increasing emissions into the air, the factor "green plants as air filter" has a growing importance. Also the social component can not be underestimated. Green, with trailing plants covered oasis are better inviting to stay and communicate than grey back-yards. Facades covered with plants are visibly less attacked by "graffiti"- painters than bare plaster, which usually is painted white.

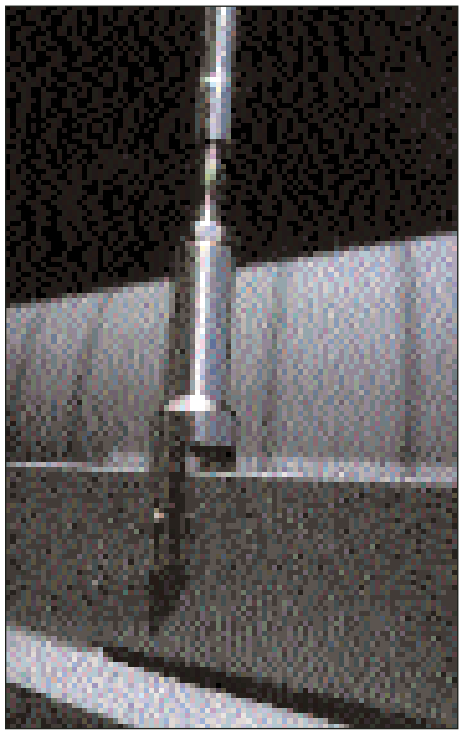
type of plant	hight in m	type of art	climber-tendrils	always green	pace of growth	color of flowers	ground requirements	positioning Actinidia		
arguta	4-6	SK	LMS	–	slow	white	medium	○	◗	●
Actinidia chinensis	8	SK	LMS	–	slow	white	medium	○	◗	●
Actinidia kolomikta	3-4	SK	LMS	–	slow	white	medium		◗	●
Akebia quinata	5-6	SCH	LMS R	–	–	purple	medium	○	◗	●
Aristolochia macrophylla	6-9	SCH	LMS R A	–	medium	yellow-green	medium	○	◗	●
Campsis radicans	7-9	WK	sh	–	–	yellow-orange	high	○		
Campsis „Mme Galen"	7-9	WK	sh	–	–	orange-red	high	○	◗	
Celastrus orbiculatus	8-12	SCH	LMS R	–	medium	greenish	modest	○	◗	
Euonymus fortunei	3-5	WK	sh	yes	–	greenish	modest	○	◗	●
Euonymus fortunei var vegata	2-3	WK	sh	yes	–	greenish	modest	○	◗	●
Hedera colchica	8	WK	sh	yes	–	white	medium	○	◗	●
Hedera hibernica	20-30	WK	sh	yes	–	greenish	medium	○	◗	●
Hedera helix „Goldheart"	4-5	WK	sh	yes	–	greenish	medium	○	◗	●
Humulus lupulus	7-8	SCH	LMS R	–	medium	green	medium	○	◗	
Hydrangea petriolaris	5-7	WK	sh	–	–	white	medium	○	◗	●
Jasminum nudiflorum	5	SK	LMS A	–	slow	yellow	medium	○		
Menispermum canadense	5	SCH	LMS R	–	–	yellow-green	medium	○	◗	
Parthenocissus quinquefolia	15	RP	LMS sh	–	medium	greenish	medium	○	◗	
Parthenocissus tricuspidata „Veitchii"	14	RAH	sh	–	medium	yellow-green	medium	○	◗	●
Parthenocissus quinquefolia var. Engelmannii	15	RAH	sh	–	medium	yellow-green	medium	○	◗	●
Periploca graeca	10	SCH	LMS R	–	–	violet	medium	○	◗	
Polygonum aubertii	10	SCH	LMS R	–	–	white	modest	○	◗	●
Rubus Fruchtsorten	4-5	RP	sh	partly	slow	pink	medium	○	◗	●
Schisandra chinensis	8	SCH	LMS R	–	–	yellow-red	medium	○	◗	
Schizophragma hydrangeoides	6-8	WK	sh	–	–	white	medium	○	◗	●
Vitis coignetiae	6-8	RP	LMS	–	medium	yellow-green	medium	○	◗	●
Vitis vinifera	6-8	RP	LMS	–	slow	yellow-green	medium	○	◗	
Wisteria floribunda	8-9	SCH	LMS	A	–	violett	medium	○		
Wisteria sinensis	20	SCH	LMS	A	–	blue	medium	○	◗	

legend:				
SK	expanding creepers	LMS	paling	m sunny
SCH	climber		metal lattice	w medium shady
WK	Root climber		rods	l shady
RP	creeping plant	LMS R	paling	
RAH	creeping plant with adhering discs		metal lattice	
			rods	
			tightened rope	
			thin	
			lattice	
		LMS R A	paling	
			metal lattice	
			rods	
			tightened rope	
			thin	
			lattice	
			lashing	
		sh	self adhering	

Trail-ropes

GreenLine

Trailing help
Because trailing plants do not create their own supporting stem or branch system, they need a substitution. This is the task of trellis in the form of wooden fences with relatively thick dimensioned long- resp. cross-bars or with alloy steel ropes which, being a trailing aid of a particularly nice looking character, are hardly visible on the facades. However, arranged in form of a net or mesh, they still can be applied as elements of an active flat formation. One may arrange this way by means of preferably linear structures architectonic eye catching spots. Trailing plants may also help covering cornices or facade protrusions. The fastening technique offers adequate systems of dowelled joints for fastening on concrete, hollow bricks or cellular concrete. Special systems of masonry mortar like e.g. UPAT UPM 1achieve excellent results. During the assembly on damping façades, the length of threaded rods is to be measured so, that the connection with the carrying masonry will be secured.



Trailing plants may achieve a life-length of 30 up to 100 years, therefore when selecting materials, utmost attention should be paid to corrosion resistance.

DoStructa GreenLine`s manufactured out alloy steel elements. Knobs of trailing ropes consist of weather resistant plastic.

! Pay attention during the assembly to seeling – avoid low temperature bridges.

Valuable advices may be obtained also in the “Directions regarding planning, execution and maintenance of facade facilities with creeping plants” of
FLL
Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau e.V.
(Scientific Association for Landscape development, Landscape Forming and Landscape Creation)
53840 Troisdorf.

Of topical interest: green facades!

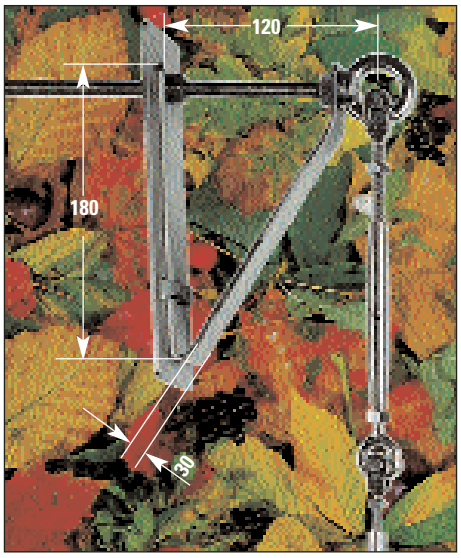
Rope trailing system

GreenLine

Triangle combination

with 120 mm of wall distance, threaded rod M10 x 200 mm as standard length for installation in masonry, ending with M10 ring nut.

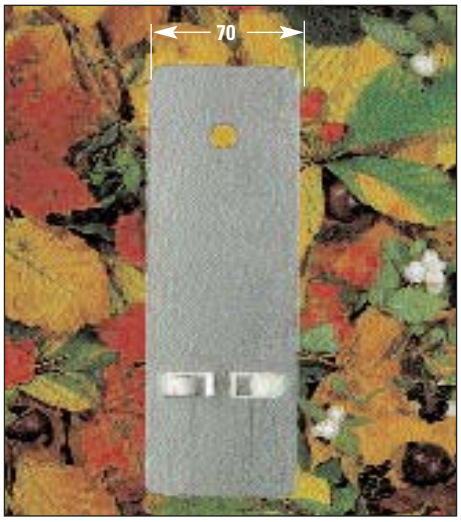
article no.	price **EUR**
4490 1210	26,50



Packing plate for triangle combination

Cares for a better load distribution it decreases the pressure on the surface especially recommended in case of damming façades.

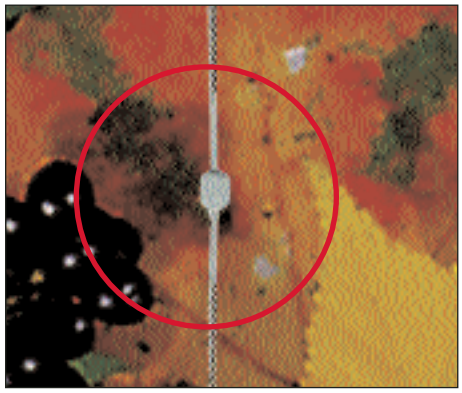
article no.	price **EUR**
4490 0001	11,90



Alloy steel rope with trailing aiding shoulders

4 mm in dimension, material 1.4401., structure 7x7 wires, 1570 N/mm strength. The first rope on the market with support knobs. Made of weather resistant plastic. Rounded knobs forms to avoid any damage to the plants. 3 shoulders on 1 m of rope length. knobscolor – grey.

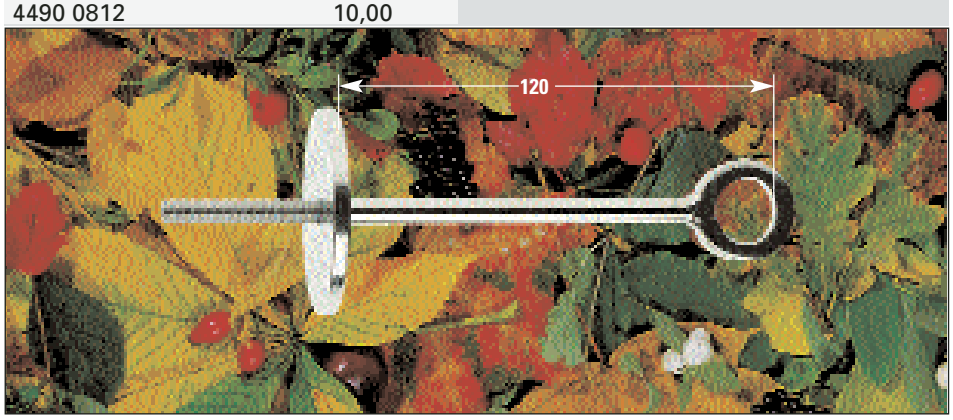
article no.	price per m **EUR**
0170 0401	6,60



Supporting plate with passage eye

Wall distance of 120mm, as guide and distance bar for long horizontal or vertical ropes. Ropes of a length exceeding 3 m should be supported by a guiding eye.

article no.	price **EUR**
4490 0812	10,00

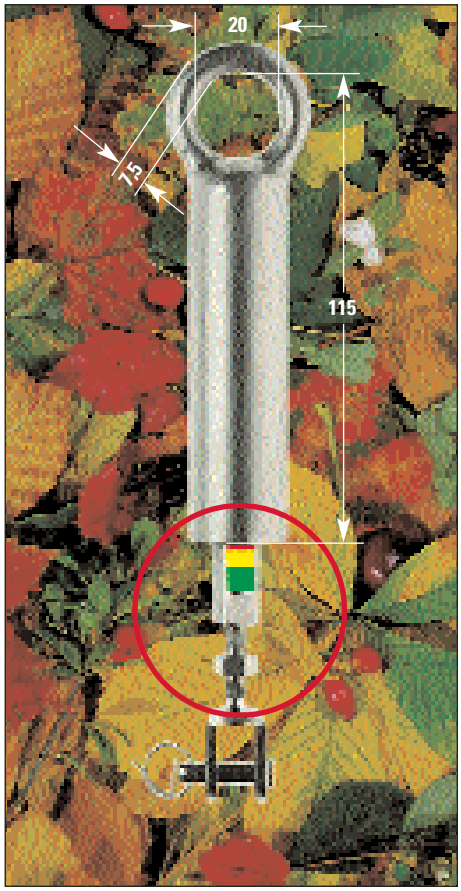


Rope trailing system

GreenLine

This Dolezych-product is protected by patent-law.

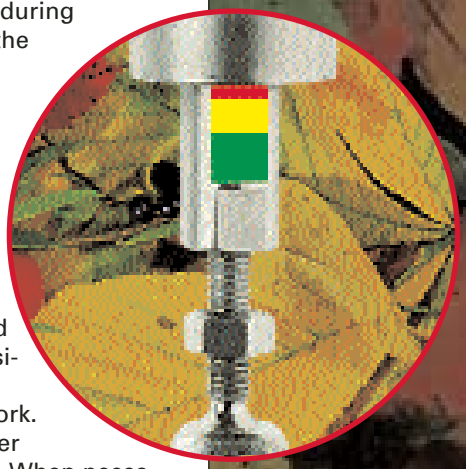
Greenline Tensiometer with maintenance indicator with colour-hook.



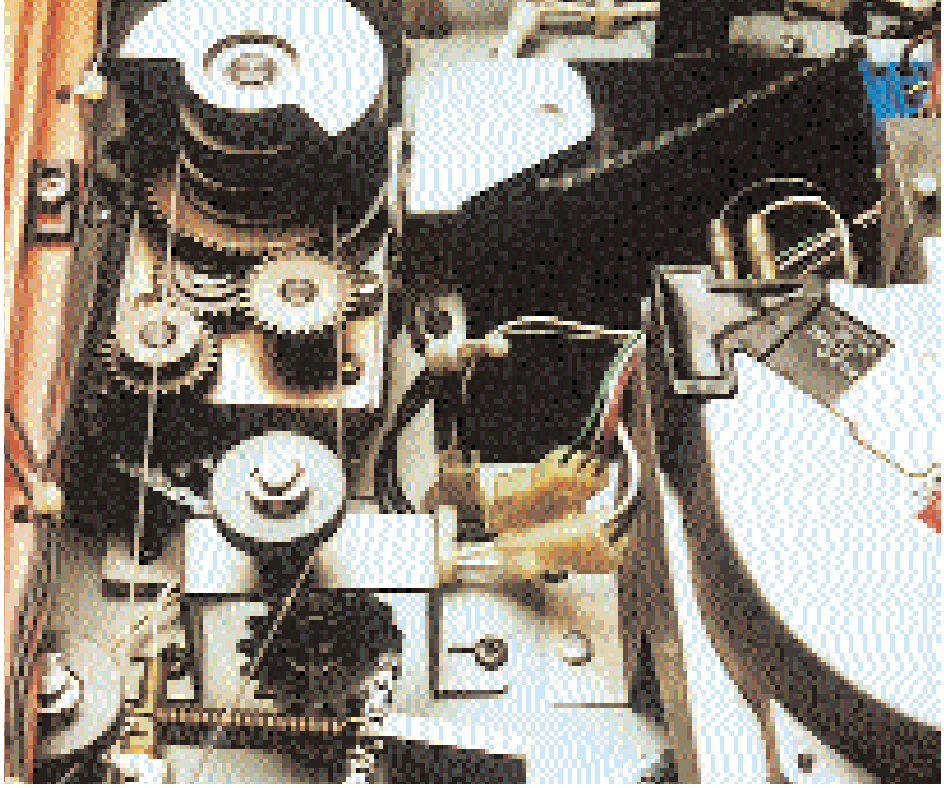
Greenline Tensiometer

Tensiometer with upper installation eye for connection with the trailing aiding rope above the fork terminal. Lower threaded fork for connection with the ring nut of the triangle combination. The pretensioning is adjustable by the help of...

article no.	price **EUR**
4410 0001	57,40



This structure element makes sure that the rope can grow with the plant. The intensity is to be set during the assembly so, that in the tensiometer with traffic colors green/yellow/red, the green color will be visible. With growing tensile stress because of the growth progress of plants, the indicator is coming out of its casing. The yellow color appears. Now you should decrease the system tension simply by means of adjusting the threaded fork. Thereafter the tensiometer shows green color again. When necessary, this proceeding may be repeated several times.
When the stress intensity in the system will not decrease, the tensiometer moves by showing the red color. When in spite of this, the user will not decrease the stress intensity, then a safety pin at the triangle fixture will get broken at a respective place. This makes sure that the upper mount of system will not get broken out of the facade, when the growth of plants will lead to an excessive system tension.



Thin ropes Scope of application Materials

DoTec

DoTec, system of thin ropes for precision stretching and tightening: for steering and for power transmission purposes, ready made with different terminal or intermediary pieces. Flexibly adjustable for all specific needs. We have thin ropes of very different structures with attached transmission elements in order to e.g. apply steering from A to B or via C to D. The system of thin ropes is ready for installation. The designer was not limited at all as regards technical possibilities. By means of thin ropes powers may be directed round the corner with no worth mentioning loss due to abrasion. Thanks to the precise transmission tension losses are going to be minimized.

Rope materials

The standard thin steel ropes are made of galvanized drawn wires. The alloy steel wires are manufactured by Dolezych usually of the material no. 1.4401 (AISI 316) or of material 1.4301 (AISI 304). Other stainless products are made by us against inquiry. The ropes are available with different mantle materials (pls. see the table on page 188). We are flexible and are able to meet very specific requirements. Please address with any constructive enquiries our specialized advisers.

Which rope structure?

The every day practice resulted in a standard rope program, which met with general approval,
from ca. 0,1 up to 3 mm in various rope structures. The wall thickness of mantles, depending on material, should be in terms of at least 0,15 mm however, not exceeding 2 mm. In case that ropes or strands will be required, made according to the LN-standard or to the Mil-W-83420 D specification, of different thickness or of other tolerances, please inquire.

Typical applications

We recommend the following products as tightening and guy ropes:

DoTec 107
- Bowden cables
- Transmission ropes
- Catheters

DoTec 119
- Electrodes
- Bowden cables
- Clutch and braking ropes
- Surgical suturing materials
- Bicycle and automotive industry

For dynamic loads the following products are suitable:

DoTec 707
- Hammer signals, hood- ,brake lines
- Window openers (in general)
- Window shutter lines
- Automotive industry

DoTec 719
- Electric window openers
- Printers and plotters
- Stall cleaning systems
- Automotive industry

Criteria of selection

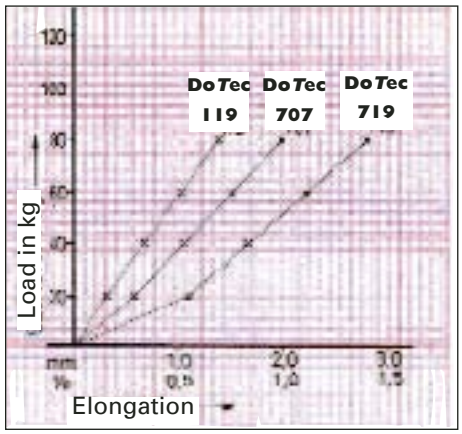
The lay of all strands and ropes is in principle of right hand (Z), but on request we manufacture also left hand ropes (S).In case of ropes the standard lay is respectively (sZ) regular right hand lay rope (pls. see also pages 164 – 165). When changing direction one should take care that plate diameters are sufficiently dimensioned. 16 x d (rope diameter) should be considered the absolute minimum. 25 – 50 x d may considerably extend the life. Dirty grooves may considerably negatively affect the life.

The elongation of a rope takes place in two steps. The first step is a s.c. structural elongation , the second stage – the elastic elongation. The structural elongation takes place in every new rope. One may consider this a settling process, during which the rope elements like strands and wires take their optimal place in the rope or strand structure. This way a unique and lasting elongation gets created.

The flexible elongation depends on the attached load. Within the range of flexibility, after unloading it returns to 0. The range of flexibility ends with 50-60% of the calculated breaking load, i.e. when the rope load will be higher, the elongation limit will be exceeded so, that a deformation will take place. Structural and flexible elongation depend on the rope structure, on its core (fiber or steel core) and on the length of lay. The structural elongation takes place at ca.0,25-0,5%, the flexible elongation – between 0,25 – 0,75% (based on experience).

Changing tension and bending result in wear of thin wires. Their life is positively influenced by sufficiently dimensioned coil diameter or by selecting an adequate mantle.

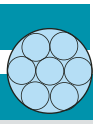
Comparison of thin rope elongation
(example on the 1,5 mm diameter)



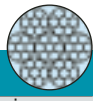
Thin ropes Galvanized + Alloy steel

DoTec

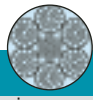
Thin ropes, galvanized



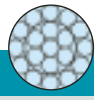
article no.	nominal rope ø mm	calculated breaking load N	weight per kg/m	price per 100 Meter **EUR**
0100 0023	0,21	47,68	0,21	on request
0100 0033	0,30	97,31	0,43	on request
0100 0043	0,39	164,46	0,73	on request
0100 0053	0,51	181,23	1,26	5,25
0100 0063	0,60	369,24	1,74	6,30
0100 0073	0,69	514,77	2,30	6,30
0100 0803	0,81	709,49	3,17	7,30
0100 0903	0,90	875,80	3,91	7,30



article no.	nominal rope ø mm	calculated breaking load N	weight per kg/m	price per 100 Meter **EUR**
0131 0063	0,63	333,78	1,47	on request
0131 0083	0,81	551,75	2,52	on request
0131 0103	1,00	824,22	3,68	49,00
0131 0123	1,26	1335,10	5,96	46,90
0131 0153	1,50	1968,60	8,79	44,85
0131 0183	1,80	2724,70	12,16	41,70
0131 0203	2,00	3296,89	14,71	41,70
0131 0223	2,25	4257,35	19,00	43,80



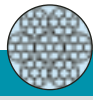
article no.	nominal rope ø mm	calculated breaking load N	weight per kg/m	price per 100 Meter **EUR**
0132 0103	1,05	905,96	4,02	on request
0132 0123	1,20	1183,30	5,25	on request
0132 0153	1,50	1846,91	8,19	on request
0132 0203	2,00	3623,86	16,17	102,15
0132 0253	2,50	5343,34	23,85	78,15
0132 0303	3,00	7395,62	33,01	84,40



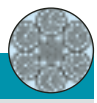
article no.	nominal rope ø mm	calculated breaking load N	weight per kg/m	price per 100 Meter **EUR**
0175 0033	0,35	129,42	0,58	on request
0175 0053	0,50	264,13	1,17	on request
0175 0063	0,60	390,35	1,70	on request
0175 0073	0,70	517,69	2,31	on request
0175 0083	0,80	676,17	3,02	10,45
0175 0093	0,90	855,78	3,82	12,50
0175 0103	1,00	1055,52	4,72	13,55
0175 0123	1,25	1650,81	7,37	15,65
0175 0153	1,50	2377,16	10,61	16,70

Thin ropes of alloy steel, material no. 1.4401 (AISI 316)

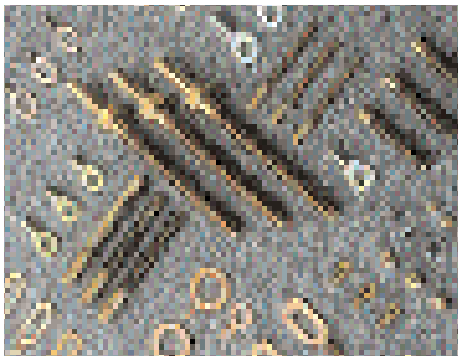
article no.	nominal rope ø mm	calculated breaking load N	weight per kg/m	price per 100 Meter **EUR**
0407 0021	0,21	42,29	0,21	26,80
0407 0031	0,30	86,31	0,43	23,15
0407 0041	0,39	145,88	0,73	26,80
0407 0051	0,51	249,45	1,26	31,65
0407 0061	0,60	345,26	1,74	33,75
0407 0071	0,69	456,60	2,30	36,81
0407 0081	0,81	629,24	3,17	39,88
0407 0091	0,90	776,84	3,91	42,95

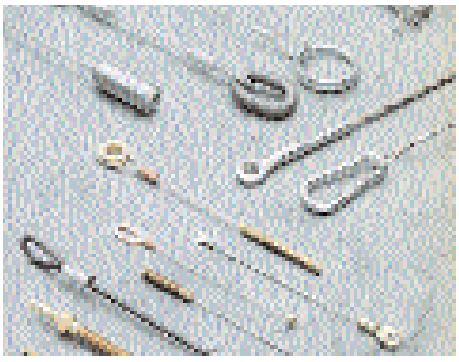


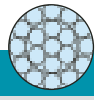
article no.	nominal rope ø mm	calculated breaking load N	weight per kg/m	price per 100 Meter **EUR**
0407 0067	0,63	296,06	1,47	131,91
0407 0087	0,81	489,41	2,52	110,44
0407 0107	1,00	731,09	3,68	47,04
0407 0127	1,26	1184,24	5,96	105,33
0407 0157	1,50	1746,16	8,79	108,39
0407 0187	1,80	2416,82	12,16	119,64
0407 0207	2,00	2924,36	14,71	53,17
0407 0227	2,25	3776,29	19,00	on request
0407 0257	2,50	4736,98	23,84	72,60



article no.	nominal rope ø mm	calculated breaking load N	weight per kg/m	price per 100 Meter **EUR**
0419 0107	1,00	803,59	4,02	265,75
0419 0127	1,20	1049,59	5,25	125,75
0419 0157	1,50	1638,22	8,19	82,35
0419 0207	2,00	3214,38	16,17	106,30
0419 0257	2,50	4739,57	23,85	121,95
0419 0307	3,00	6559,96	33,01	137,55







article no.	nominal rope ø mm	calculated breaking load N	weight per kg/m	price per 100 Meter **EUR**
0419 0031	0,35	114,80	0,58	46,40
0419 0051	0,50	234,28	1,17	49,00
0419 0061	0,60	346,24	1,70	54,20
0419 0071	0,70	459,19	2,31	59,40
0419 0081	0,80	599,77	3,02	63,60
0419 0091	0,90	759,08	3,82	65,65
0419 0101	1,00	936,25	4,72	21,90
0419 0121	1,25	1464,28	7,37	on request
0419 0151	1,50	2108,55	10,61	36,50

Rope clamps
Rolls

DoTec

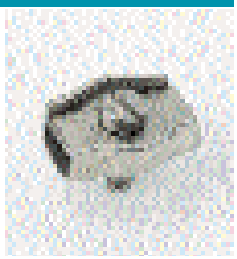
Thin ropes made of the best...

The DoTec thin rope systems are meeting reliably the highest requirements. They are applied inside the smallest housings of electronic industry , but also in medical instrumentation. They steer and tighten, they brake and...

Simplex grip

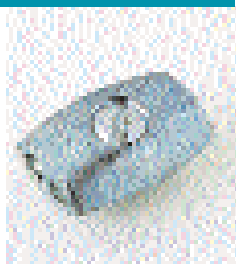
article no. **galvanized**	nominal rope ø mm	price per piece **EUR**
0340 3025	2	0,32
0340 3035	3	0,35

article no. **alloy steel 1.4401**	nominal rope ø mm	price per piece **EUR**
1440 2002	2	0,80
1440 2003	3	0,95



Egg-shaped grip

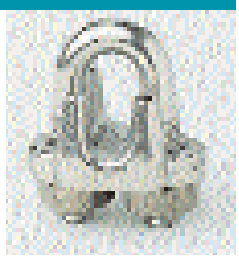
article no. **galvanized**	nominal rope ø mm	price per piece **EUR**
0340 5020	2	0,70
0340 5030	3	0,75



Steel wire rope grip

article no. **galvanized**	nominal rope ø mm	price per piece **EUR**
0340 2030	3	0,15

article no. **alloy steel 1.4401**	nominal rope ø mm	price per piece **EUR**
1440 1002	2	3,65
1440 1003	3	3,70



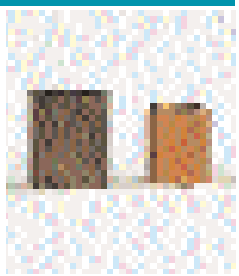
Duplex grip

article no. **galvanized**	nominal rope ø mm	price per piece **EUR**
0340 4025	2	0,55

article no. **alloy steel 1.4401**	nominal rope ø mm	price per piece **EUR**
1440 3002	2	1,50
1440 3003	3	2,00

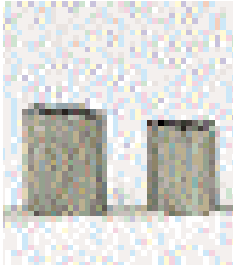
Copper clamp

article no.	nominal rope ø mm	price per piece **EUR**
4310 9020	1,2-1,6	0,15
4310 9025	1,7-2,1	0,20
4310 9030	2,2-2,6	0,25
4310 9035	2,7-3,1	0,30



Aluminum clamp

article no.	clamp no.	price per piece **EUR**
4310 1010	1	4,60
4310 1015	1,5	4,95
4310 1020	2	5,30
4310 1025	2,5	5,65
4310 1030	3	6,35
4310 1035	3,5	7,05



DoRoll 1, of polyamide with hub

article no.	ø of roll mm	groove width mm	groove depth mm	bore hole for bolt ø mm	width of roll mm	price per piece **EUR**
0374 0015	5	6	3	4	9	1,85
0374 0020	20	6	4	5	10	1,90

DoRoll 2, of polyamide without a hub

article no.	ø of roll mm	groove width mm	groove depth mm	bore hole for bolt ø mm	width of roll mm	price per piece **EUR**
0374 5005	5	0,5	0,25	1,5	2	
0374 5010	10	1	0,5	2	3	
0374 5015	15	2	1	2,5	3	
0374 5020	20	3	1,5	4	5	
0374 5025	25	3	2	4	5	
0374 5030	30	4	4	5	6	

please require

DoRoll 3, of ball bearing steel with hub

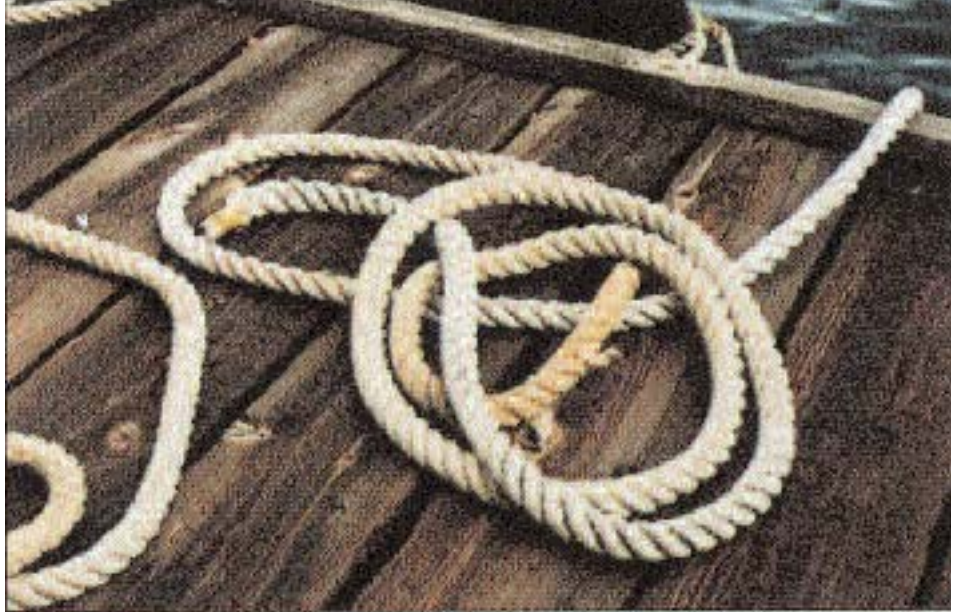
article no.	ø of roll mm	groove width mm	groove depth mm	bore hole for bolt ø mm	width of roll mm	price per piece **EUR**

please inquire

Fiber ropes, braided yard goods

DoFas

Hemp ropes which were in contact with aggressive materials should be disposed. natural fibre ropes are susceptible to decay - wet ropes should be hanged for drying.



Hamp ropes,DIN EN 1261,Form B, 4 strands

nominal Ø of rope mm	rope length weight kg /100 m	minimum breaking force of rope daN	article no.	price per 100 m EUR
6	2,70	235	0725 0601	18,60
8	4,70	450	0725 0801	33,75
10	7,40	700	0725 1001	48,06
12	11,10	1080	0725 1201	69,54
14	14,10	1485	0725 1401	92,03
16	18,50	1825	07251601	116,57
18	23,00	2250	0725 1801	143,16
20	28,50	2780	0725 2001	175,88
22	34,50	3240	0725 2201	209,63
24	41,00	3980	0725 2401	270,98
26	48,50	4600	0725 2601	306,00
28	56,00	5410	0725 2801	337,45
30	64,00	6180	0725 3001	395,74
32	73,50	7000	0725 3201	349,26
36	93,00	8560	0725 3601	502,40
40	115,00	9980	0725 4001	644,23
44	138,00	11800	0725 4401	on request
48	166,00	14100	0725 4801	on request
52	192,00	16700	0725 5201	on request
56	224,00	19100	0725 5601	on request

Polypropylene ropes, DIN EN 699, Form A , 3 strands

nominal Ø of rope mm	rope length weight kg /100 m	minimum breaking force of rope daN	article no.	price per 100 m EUR
6	1,70	590	0732 0601	7,80
8	3,00	1040	0732 0801	16,80
10	4,50	1530	0732 1001	21,10
12	6,50	2170	0732 1201	30,60
14	9,00	2990	0732 1401	37,10
16	11,50	3700	0732 1601	48,90
18	14,80	4720	0732 1801	59,80
20	18,00	5690	0732 2001	71,30
22	22,00	6820	0732 2201	88,20
24	26,00	7970	0732 2401	105,00
26	30,50	9220	0732 2601	123,00
28	35,50	10490	0732 2801	144,50
30	40,50	11980	0732 3001	163,00
32	46,00	13230	0732 3201	185,80
36	58,50	16590	0732 3601	236,20
40	72,00	20100	0732 4001	276,80
44	88,00	24150	0732 4401	355,30
48	104,00	28040	0732 4801	419,90
52	122,00	32450	0732 5201	492,00
56	142,00	37100	0732 5601	572,80

Polyester ropes, DIN EN 697, Form A, 3 strands

nominal Ø of rope mm	rope length weight kg /100 m	minimum breaking force of rope daN	article no.	price per 100 m EUR
4	1,45	290	0731 0401	13,70
6	3,00	554	0731 0601	27,70
8	5,10	1000	0731 0801	56,45
10	8,10	1560	0731 1001	81,81
12	11,60	2230	0731 1201	104,50
14	15,70	3120	0731 1401	104,40
16	20,50	3980	0731 1601	168,73
18	26,00	4980	0731 1801	230,50
20	32,00	6230	0731 2001	283,60
22	38,50	7470	0731 2201	341,20
24	46,00	8960	0731 2401	407,70
26	54,00	10500	0731 2601	on request
28	63,00	12000	0731 2801	on request
30	72,00	13400	0731 3001	on request
32	82,00	15400	0731 3201	on request
36	104,00	19000	0731 3601	on request
40	128,00	23500	0731 4001	on request
44	155,00	27900	0731 4401	on request
48	185,00	32900	0731 4801	on request
52	215,00	38400	0731 5201	on request
56	251,00	43900	0731 5601	on request

Polyamide ropes, DIN EN 696, Form A , 3 strands

nominal Ø of rope mm	rope length weight kg /100 m	minimum breaking force of rope daN	article no.	price per 100 m EUR
4	1,05	315	0730 0401	13,30
6	2,25	735	0730 0601	20,20
8	4,00	1320	0730 0801	35,90
10	6,20	2040	0730 1001	54,30
12	8,90	2940	0730 1201	77,80
14	15,80	4020	0730 1401	105,80
16	20,00	5200	0730 1601	135,90
18	24,50	6570	0730 1801	172,00
20	30,00	8140	0730 2001	210,70
22	39,50	9800	0730 2201	258,00
24	42,00	11800	0730 2401	305,30
26	48,50	13700	0730 2601	361,20
28	55,50	15500	0730 2801	416,50
30	63,00	17400	0730 3001	477,40
32	79,00	19600	0730 3201	541,70
36	80,00	24400	0730 3601	687,90
40	99,00	29400	0730 4001	851,20
44	120,00	35100	0730 4401	on request
48	142,00	41200	0730 4801	on request
52	166,00	47900	0730 5201	on request
56	196,00	54900	0730 5601	on request

Special fibre ropes Of Dyneema Dyne one Dyna coat

DoFas

Dyna One,12 times braided of 100% Dyneema SK 75 fibre. Standard length: 200 m

article no.	rope diameter mm	weight kg/100 m	breaking load daN	price per 100 m **EUR**
0723 0401	4	0,79	1200	102,40
0723 0501	5	1,44	2300	149,50
0723 0601	6	2,04	2700	185,20
0723 0801	8	3,70	5000	318,50
0723 1001	10	5,80	8500	508,60
0723 1201	12	8,90	11500	736,10
0723 1401	14	11,80	15500	970,00
0723 1601	16	15,60	20500	1381,20
0723 1801	18	21,00	26500	1595,70
0723 2001	20	24,90	31200	1959,70
0723 2201	22	30,80	37750	2564,20
0723 2401	24	36,00	44000	3245,10

Dyna Coat, with a 12 times braided core of Dyneema SK 75, intermediate and external mantle of polyester. Standard length: 200 m

article no.	rope diameter mm	weight kg/100 m	breaking load daN	price per 100 m **EUR**
0724 0401	4	1,0	700	42,30
0724 0501	5	2,1	1200	87,80
0724 0601	6	2,6	1650	120,30
0724 0801	8	4,0	3000	191,80
0724 1001	10	6,8	5100	284,40
0724 1201	12	9,9	7500	404,60
0724 1401	14	13,3	9500	565,30
0724 1601	16	17,5	12000	739,40
0724 1801	18	22,3	15000	903,50
0724 2001	20	28,0	19000	1131,00
0724 2201	22	32,7	23000	1272,30
0724 2401	24	38,9	25500	1477,10

Other rope diameters are delivered against an inquiry. On request we also supply ready made ropes with spliced in slings or Niro-thimbles.

The fibre material

The Dyneema SK75 material is polyethylene of high strength (360 daN/mm2).Thus its breaking load is 3 up to 4 times higher than in case of a regular fiber rope of polyester or polyamide of same diameter. Excellent is also the low elongation at break of 3,8% which, combined with the high abrasion hardness, make the rope manufactured of Dyneema to the ideal choice e.g for yachting purposes.
In the Dyna Coat execution, the polyester mantle still increases the abrasion resistance.
Their Industrial application is e.g. as cable pulling ropes, hoisting winch ropes.

Material highlights:

UV – resistance:	very good
lye resistance:	very good
acid resistance:	very good
gazoline- / oil resistance:	very good
resistance against knots:	of ca. 50%

Both executions are easy to splice (pls. observe the splicing instruction)

A comparison of synthetic fibres

Proprieties	Polyamid 66	Polyester	Polypropylene	Dyneema SK75
Specific gravity [kg/cdm]	1,14	1,38	0,91	0,97
Strength decrease because of humidity, ca.%	5-10	0	0	0
Knot strength ca. %	60-65	55-60	55-65	50
Light resistance	good	very good	with UV-equipment	very good
Elongation at break ca.%	16-27	10-16	14-24	3,8
Abrasion resistance	very good	good	satisfactory	Dyna One: good Dyna Coat: very good
Temperature resistance, ca.°C	-20/+130	-20/+170	-20/+80	-20/+70
Softening point, ca. .°C	170	225	140	130
Melting point ca. .°C	250	260	170	160

Lifting fibre ropes in the style of DIN 83302

DoFas

Their advantages:

- Good gripping
- Good bending properties
- Low weight
- Protection of loaded goods

Select the right material for application with chemicals (ask Dolezych about the appropriate rope).
The lifting fibre ropes are suitable for under temperatures between -40°C up to +80°C without any loss of lifting capacity. The application beyond these temperature ranges is forbidden.

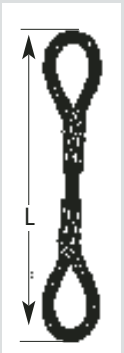
Ropes with a break of one strand, with the breaks of more threads (more than 10% of total),
deformations resulting by heat influence, eased splices, damages caused by aggressive materials, are to be disposed .

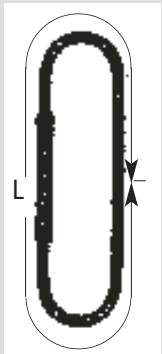
Please ask Dolezych about lifting capacities of other fibre materials, e.g. PES, Kevlar may be requested. The lifting capacities refer to ropes of 4-axle ropes. In case of 3 axle ropes higher figures are achieved. The prEN 1492-4 accepts still higher values. Binding is the figure mentioned on the label.

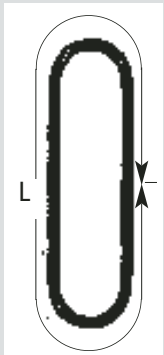
* Please put also the lengths under the respective art.no. of the various variants of execution (e.g. 1,0 m "10", from 10,0 m "99" and complete additionally with the length). When ordering, pls. mention all the data under the respective art. no.

Lifting fibre ropes

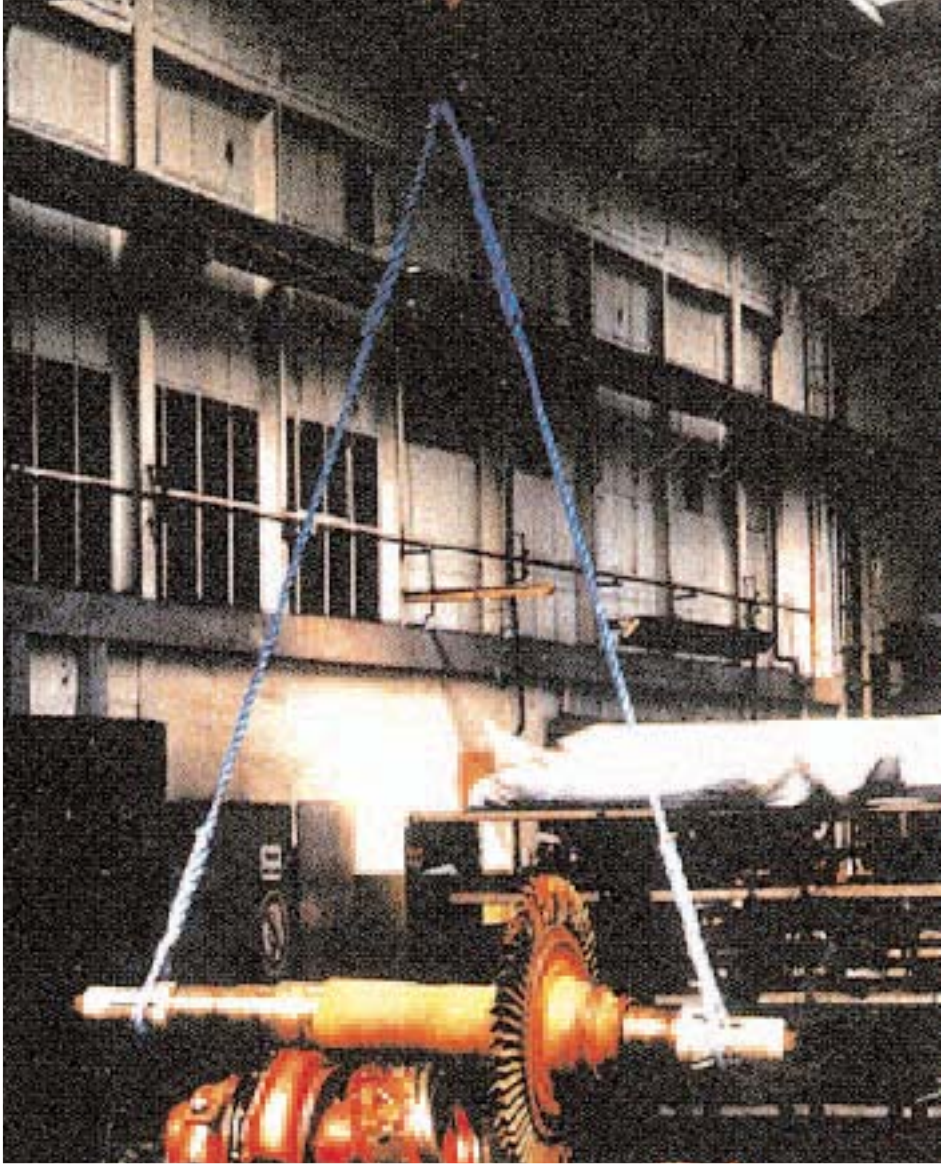
Please complete the art.no. with the required rope length







nominal rope diameter mm	lifting capacity at perpendicular 0°	2 slings article no.	basic price/ 1 m EUR	lifting capacity at perpendicular 0°	endless short splice article no.	basic price/ 1 m EUR	price per any add. meter EUR	lifting-capacity at perpendicular 0°	endless short splice article no.	basic price/ 1 m EUR	price per any add. meter EUR
Hemp DIN EN 1261											
16	210	1725 16..*	5,16	420	2725 16..*	4,88	1,33	300	3725 16..*	8,90	2,35
20	315	1725 20..*	6,77	630	2725 20..*	5,68	1,94	475	3725 20..*	10,63	3,07
24	450	1725 24..*	9,69	900	2725 24..*	8,33	2,86	675	3725 24..*	12,73	4,24
28	630	1725 28..*	12,27	1260	2725 28..*	10,89	3,89	950	3725 28..*	16,46	5,42
32	800	1725 32..*	15,39	1600	2725 32..*	12,83	5,11	1200	3725 32..*	19,22	6,85
36	1060	1725 36..*	19,74	2120	2725 36..*	15,54	6,49	1580	3725 36..*	22,29	7,67
40	1250	1725 40..*	27,46	2500	2725 40..*	21,12	7,93	1870	3725 40..*	22,91	9,97
48	1800	1725 48..*	49,83	3600	2725 48..*	36,40	13,19	2700	3725 48..*	44,89	14,16
Polyamide DIN EN 696											
16	600	1730 16..*	8,79	1200	2730 16..*	8,39	2,35	900	3730 16..*	10,33	3,32
20	800	1730 20..*	13,04	1600	2730 20..*	12,58	3,53	1200	3730 20..*	14,16	5,11
24	1200	1730 24..*	18,30	2400	2730 24..*	18,41	5,52	1800	3730 24..*	21,47	7,72
28	1800	1730 28..*	27,05	3600	2730 28..*	26,74	7,77	2700	3730 28..*	23,11	10,79
32	2200	1730 32..*	29,86	4400	2730 32..*	29,35	8,54	3300	3730 32..*	35,74	12,42
36	2600	1730 36..*	38,91	5200	2730 36..*	36,15	10,58	3900	3730 36..*	36,40	14,32
40	3200	1730 40..*	51,33	6400	2730 40..*	49,19	13,75	4800	3730 40..*	41,36	17,90
48	4500	1730 48..*	87,33	9000	2730 48..*	81,96	21,63	6750	3730 48..*	54,86	15,75



Lifting fibre ropes in the style of DIN 83302

DoFas

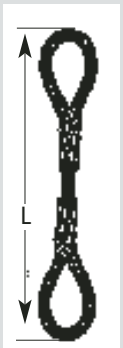
Natural and chemical fibre ropes protect against heat, humidity and aggressive materials, e.g.chlorine, acids, lyes!

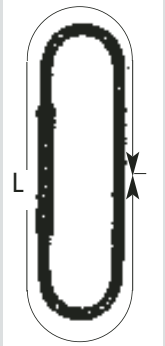
Example of an order:

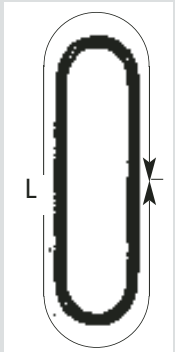
You intend to order:
1 pce of polyester rope, endless with long splice,Ø 24 mm , 4 m circumference.And this will be your order:
1 piece art.no. 3731 2440, 4 m circumference length.

Lifting fibre ropes

Please complete the art.no. with the required rope length







nominal rope diameter mm	lifting capacity at perpendicular 0°	2 slings article no.	basic price/ 1 m EUR	lifting capacity at perpendicular 0°	endless short splice article no.	basic price/ 1 m EUR	price per any add. meter EUR	lifting-capacity at perpendicular 0°	endless short splice article no.	basic price/ 1 m EUR	price per any add. meter EUR
16	560	1731 16..*	9,25	1120	2731 16..*	8,79	2,45	840	3731 16..*	10,84	3,48
20	850	1731 20..*	13,65	1700	2731 20..*	13,19	3,68	1270	3731 20..*	14,88	5,42
24	1250	1731 24..*	19,17	2500	2731 24..*	19,33	5,78	1870	3731 24..*	22,55	8,08
28	1700	1731 28..*	28,38	3400	2731 28..*	28,07	8,13	2550	3731 28..*	24,29	11,35
32	2120	1731 32..*	29,71	4240	2731 32..*	30,83	8,95	3180	3731 32..*	37,58	13,09
36	2650	1731 36..*	40,85	5300	2731 36..*	37,94	11,15	3970	3731 36..*	38,24	15,03
40	3350	1731 40..*	53,89	6700	2731 40..*	51,64	14,47	5000	3731 40..*	43,46	18,87
48	4500	1731 48..*	91,57	9000	2731 48..*	86,05	22,75	6750	3731 48..*	57,62	27,92
16	475	1732 16..*	4,81	950	2732 16..*	4,55	0,97	700	3732 16..*	7,57	1,84
20	710	1732 20..*	5,98	1420	2732 20..*	5,32	1,18	1060	3732 20..*	8,49	2,71
24	1000	1732 24..*	8,74	2000	2732 24..*	7,26	1,99	1500	3732 24..*	10,28	3,78
28	1320	1732 28..*	10,43	2640	2732 28..*	8,74	2,30	1970	3732 28..*	10,84	5,01
32	1700	1732 32..*	13,55	3400	2732 32..*	9,56	3,17	2550	3732 32..*	13,34	6,65
36	2120	1732 36..*	17,59	4240	2732 36..*	12,22	4,04	3170	3732 36..*	15,08	6,85
40	2500	1732 40..*	23,26	5000	2732 40..*	16,92	4,86	3750	3732 40..*	17,59	8,64
48	3550	1732 48..*	36,51	7100	2732 48..*	25,92	7,26	5320	3732 48..*	27,56	14,47

Fibre-ropes, laced yard goods

DoFas

PES – braid noosed,white

laced 12 times, thermo-fixed, due to the type of noosed braid – of extremely stable shape, e.g. as motor driving rope

article no.	rope diameter mm	tearing force daN	price/ 100 m **EUR**
0731 0403	4	250	18,40
0731 0502	5	400	28,70
0731 0602	6	450	32,20
0731 0702	7	650	43,60
0731 0802	8	880	51,70
0731 0902	9	1020	74,60
0731 1002	10	1200	80,40
0731 1202	12	1700	94,10

PP - Universal

laced 16 times, UV-stabili-zed, water proof, floatable. Available colors:red / blue / green and yellow. Red rope with blue coloured tracer thread green & yellow rope with red coloured tracer thread.beginning with 6 mm diameter, with twisted core.

When ordering, pls. indicate the color

article no.	rope diameter mm	tearing force daN	price/ 100 m **EUR**
0732 0201	2	100	9,20
0732 0301	3	180	13,20
0732 0404	4	300	16,10
0732 0605	6	400	33,30
0732 0810	8	800	56,20
0732 1006	10	950	78,00
0732 1207	12	1200	104,40
0732 1402	14	1500	137,70

PP - Unisoft

laced 16 times, UV-stabili-zed, water proof, floatable, soft and flexible.

Available colors: white uni, yellow (with coloured tracer), red/ blue/ green (with yellow tracer).

When ordering, pls. indicate the color

article no.	rope diameter mm	tearing force daN	price/ 100 m **EUR**
0732 0604	6	350	20,70
0732 0809	8	750	40,20
0732 1005	10	950	51,70
0732 1204	12	1200	68,90

PP – Monofil

laced 8 times concavely laced, without a core, a simple sling may be created just by pushing through the end of rope, floatable.

article no.	rope diameter mm	tearing force daN	color	price/ 100 m **EUR**
0732 0603	6	450	orange	16,10
0732 0807	8	630	white	34,50
0732 0808	8	630	orange	34,50
0732 1002	10	950	white	on request
0732 1004	10	950	orange	40,20
0732 1602	16	2300	white	on request
0732 1604	16	2300	orange	on request

Chains

Lifting chains
Grade class 80

Lifting chains
Grade 10

Chain accessories:

Chains (meter goods)

Hooks

Coupling links)

Suspension sets

Sling swivels

Sling chain Systems

DoKett 1
DoKett 2
DoComfort

Dolezych offer three different chain systems.

DoKett 1 + 2 are chain systems of the grade 80, DIN EN 818-4

The grade 80 quality is the proven quality standard for hooking chains. It is characterized by a high strength, by low own weight, a special joint quentching, high wear resistance and by an enormous variety of offered accessories. In case of the universal DoKett 1 system , all chain elements may be combined with each other by means of connecting links, the DoKett 2 system can not be mistaken, because it connects only fittings of same nominal size.

DoComfort of special 8E quality (grade 100)

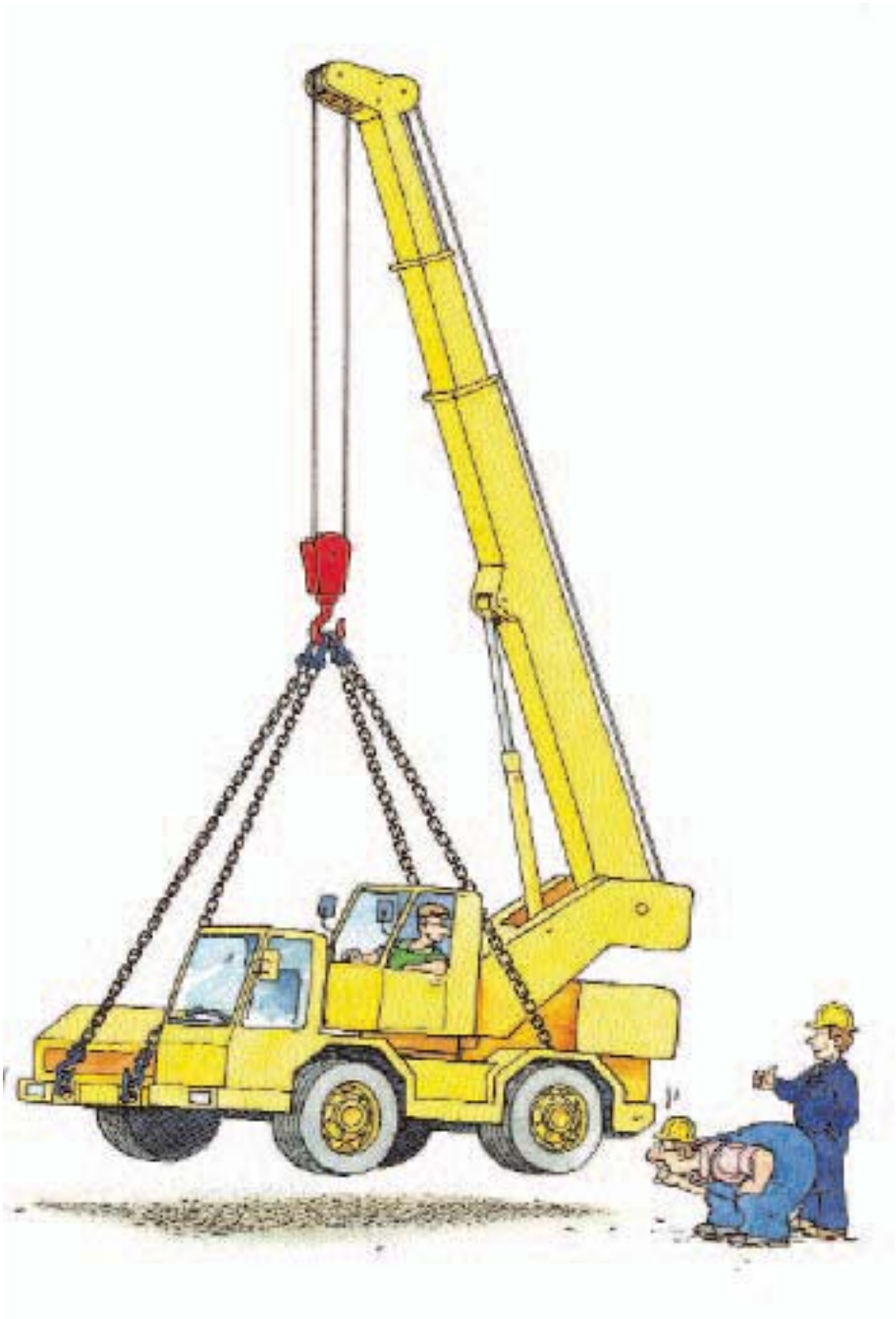
DoComfort is the new efficiency class meeting the highest requirements. It fulfils all the requirements of DIN EN 818-4 and in many respects it surpasses them. Up to 25% higher lifting capacity is achieved. Improved is the surface abrasion hardness which means lower wear. As compared with the DoKett 1 + 2 systems DoComfort, having a comparable lifting capacity, has a still lower weight.

A variety of accessories

Does not matter if DoKett1, DoKett2 or DoComfort: the choice of accessories for them is enormous. Different types of hooks, shortening possibilities, master links, torsion absorbers and, and, and...

Dolezych advisory activity

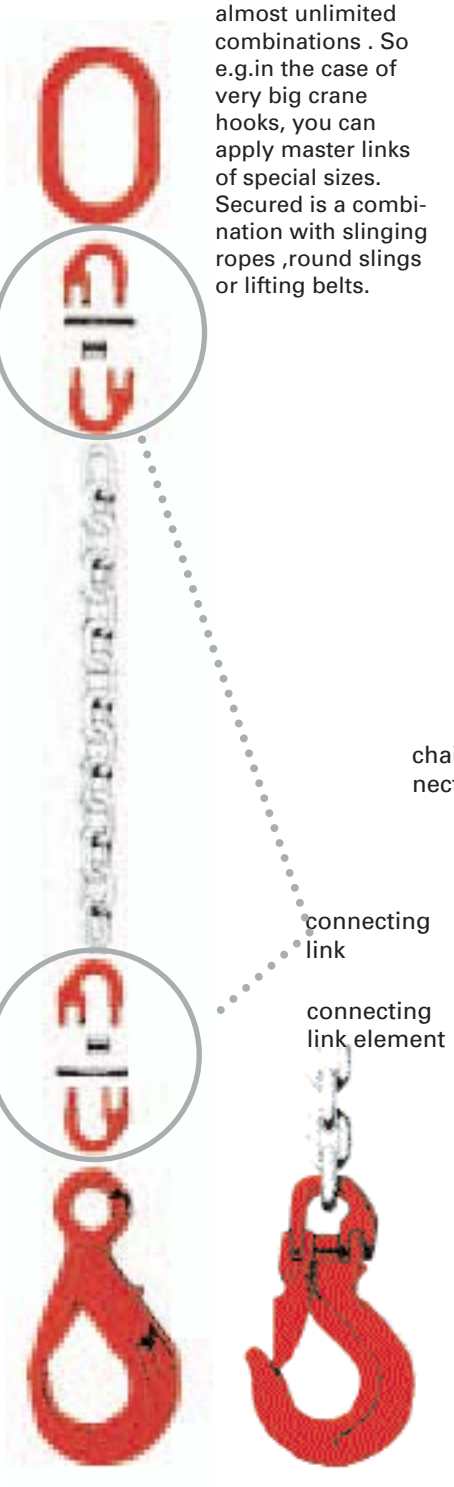
Does not matter, which type of chain you will buy – Dolezych will always assist with advices of their experts. Take advantage of our experience!



3 different chain systems...

DoKett 1

The universal system of grade 80 quality is DoKett 1. The connection of the individual chain elements by means of the universal connecting link offers a range of almost unlimited combinations . So e.g.in the case of very big crane hooks, you can apply master links of special sizes. Secured is a combination with slinging ropes ,round slings or lifting belts.

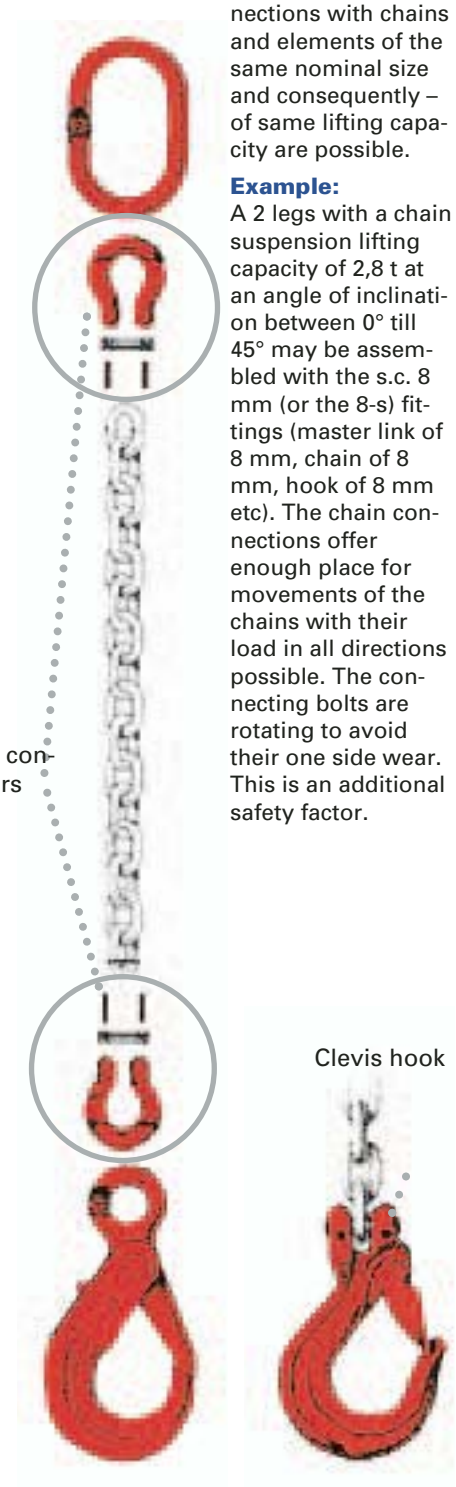


DoKett 2

not to be mistaken

With the DoKett 2 systems, mistaking them during the assembly with the chains of grade 80 quality are out of question, because in their case only connections with chains and elements of the same nominal size and consequently – of same lifting capacity are possible.

Example:
A 2 legs with a chain suspension lifting capacity of 2,8 t at an angle of inclination between 0° till 45° may be assembled with the s.c. 8 mm (or the 8-s) fittings (master link of 8 mm, chain of 8 mm, hook of 8 mm etc). The chain connections offer enough place for movements of the chains with their load in all directions possible. The connecting bolts are rotating to avoid their one side wear. This is an additional safety factor.

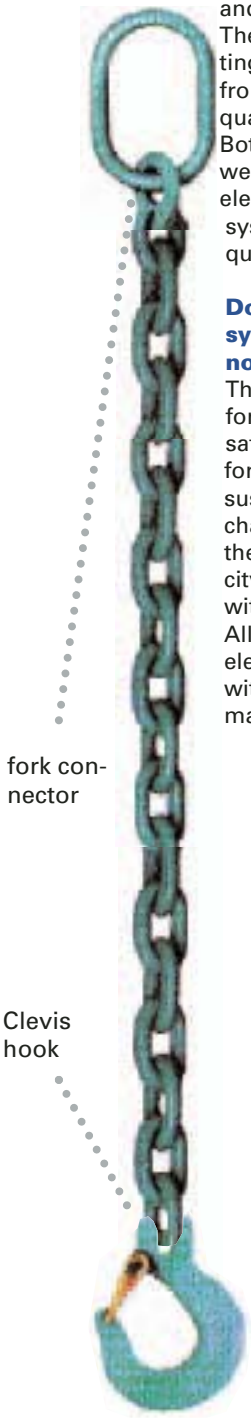


DoComfort

grade 100, not to be mistaken

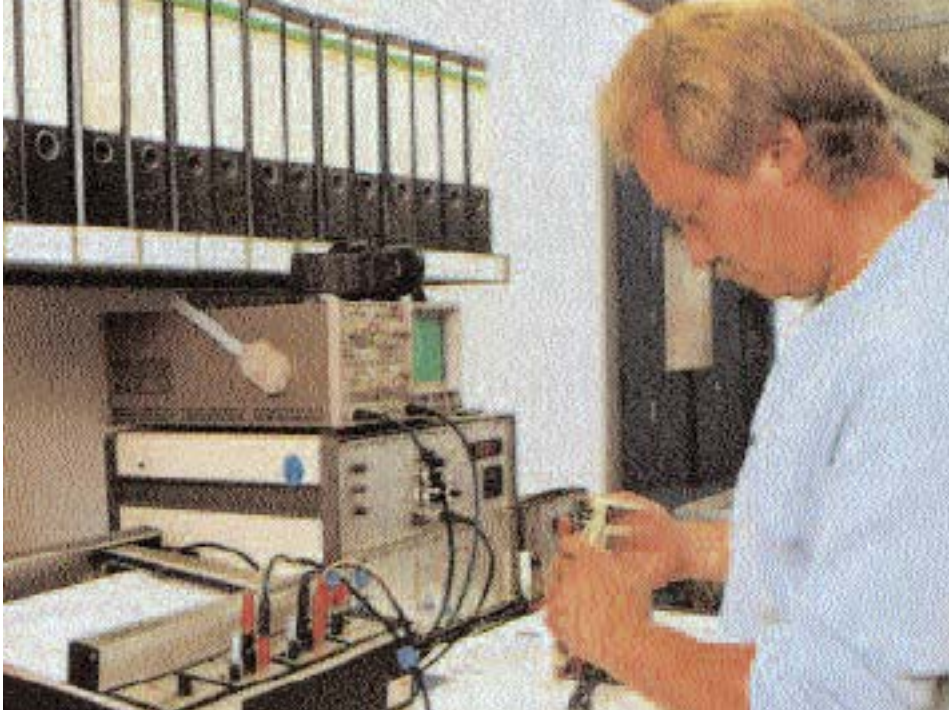
As compared with chains of the grade 80 quality, the biggest advantage in case of DoComfort is at an equal nominal diameter, their by 25% higher lifting capacity. Add to this their higher surface hardness and better tenacity. The DoComforts distinguish themselves from the grade 80 quality also by color. Both the chain, as well as its structure elements have the system color “turquoise”.

DoComfort is a system which can not be mistaken:
The master link with fork connector and safety hook with a fork head. Only chain suspensions and chain elements of the same lifting capacity can be connected with each other.
All chains and chain elements are marked with “8E” of the BG marking system.



Checks lifting capacity comparison

DoKett



Safety is virtually important therefore checks are prescribed.

DoKett 1+2, the class 8 quality and DoComfort of special execution are extremely strong chains of improved quality, which are subject of a very strict quality control under all their production processes. The chains of Dolezych are subject to the following quality controls:

Minimum breaking strength

Of the running production are regularly, at random taken samples for breaking load control. The breaking strength must be matching 4-times the lifting capacity.

Test force

The load test is carried out in case of all chains with 2,5 times of their lifting capacity.

Magnetic crack detection

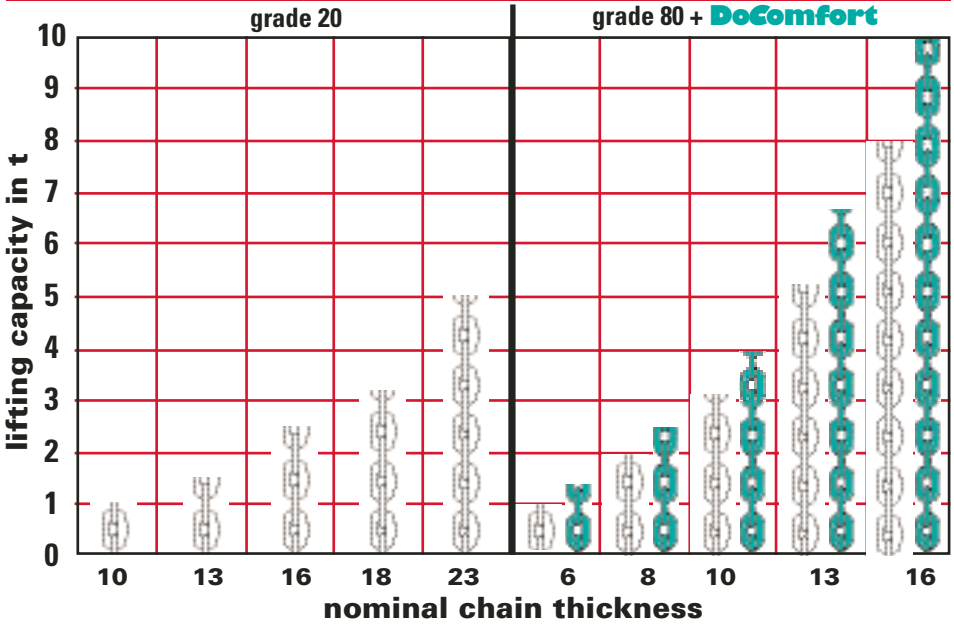
Every chain structure element is checked by a magnetic detector for cracks according to
DIN EN 1677 and DIN 5691

Breaking elongation

Prior to breaking, the chain must elongate by at least 20%. This is an additional security for you, because in case the chain was overloaded, you will be able to detect this immediately at its excessive length. The chain should be immediately exchanged!

grade 80 DoComfort nominal chain thickness mm	lifting capacity t	test force kN	minimum breaking strength kN
factor	1	2,5	4
6	1,12	28,3	45,2
6	**1,40**	**35,3**	**56,5**
7	1,50	38,5	61,6
8	2,00	50,3	80,4
8	**2,50**	**62,8**	**101,0**
10	3,15	78,5	126,0
10	**4,00**	**98,2**	**157,0**
13	5,30	133,0	212,0
13	**6,70**	**166,0**	**265,0**
16	8,00	201,0	322,0
16	**10,00**	**251,0**	**402,0**
18	10,00	254,0	407,0
18	**12,50**	**318,0**	**509,0**
19	11,20	284,0	454,0
20	12,50	314,0	503,0
22	15,00	380,0	608,0
22	**19,00**	**475,0**	**760,0**

Comparison of lifting capacity of the grade 20, grade 80, and DoComfort



Hooking chains checks and control

According to the recommendations of BG bolts of connecting links chain connectors and fork head hooks should be replaced during every check.

Crack detection. Our control is carried out by applying a magnetic crack detector. In our laboratory and with our mobile laboratory – at your site. Please call us!

DoKett

BGR 500,pos. 2.8 – means of loading in a factory of hoisting equipment

Checks

3.15.1

Control prior to the first application. The factory owner is obliged to take care that means of loading will be applied only when checked by an expert and after removing possible defects.

Instruction to pos. 3.15.1:

An expert is a person which, because to its professional education and experience, has sufficient knowledge in the field of means of loading and is in so far familiar with the relevant governmental work safety regulations, the BG rules, with regulations on accident prevention, with technical guidlines and principles (e.g. with the DIN EN standards, VDE – stipulations), that it is able to evaluate the condition of means of loading from the work safety point of view.

Checks by an expert

3.15.2 Regular checks

3.15.2.1

The company owner is obliged to take care that means of loading are checked by an expert at least once a year.

Instruction to pos. 3.15.2.1:

Depending on the conditions of application of means of loading, it may become necessary to undertake checks in shorter than one year periods. This refers e.g. to cases of a particularly frequent application, of increased wear, in case of corrosion resp. heat influence or when one should count with an increased tendency for defects.

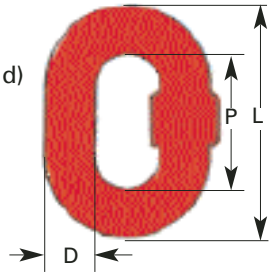
3.15.2.2

The company owner is obliged to take care that chains of rod iron which are to be used as means of loading are subjected to a special crack detection examination the latest every three years.

Instruction to pos. 3.15.2.2:

The check may be carried out e.g. by means of a non-destructive inspection. The inspectors should be certified according to EN 473.

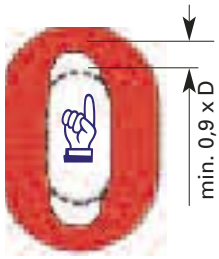
D = nominal thickness
P = division (= 3 d)
L = external nominal dimension



The hooking chains are ready for disposal e.g. in case of:

1. **cracks or deformations in one chain link**

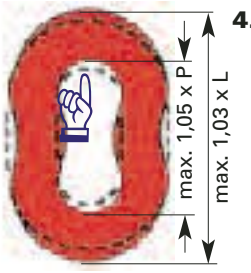
2. **the decrease by more than 10% of nominal link thickness at any place**



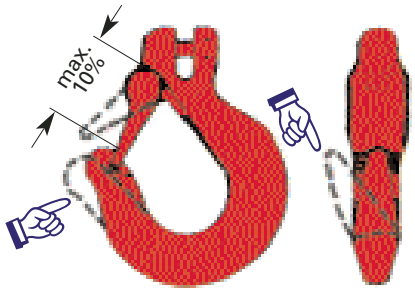
Visual inspection

The scope of visual inspection is limited to the identification of external defects, wear and deformations

3. **the elongation of the external nominal L-dimension by more than 3%. The external elongation of the chain's nominal dimension by 3% is equal to the internal elongation by 5%**

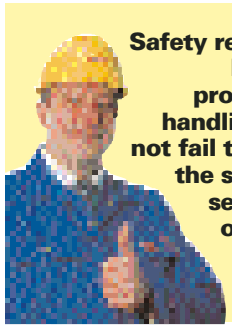


4. **the widening of the hook throat by more than 10% or in case of other deformations**



Steel bar chains technical properties and comparison of performances

DoKett



Safety results of the combination of a safe product and its safe handling – therefore do not fail to always observe the stipulations of the service manual and of BG regulations!

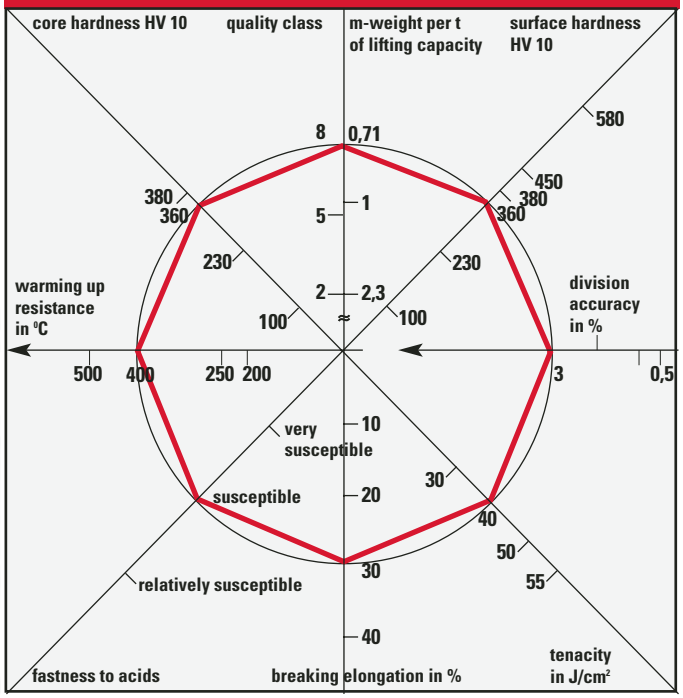
Which hooking chains are suitable for the respective scope of application?

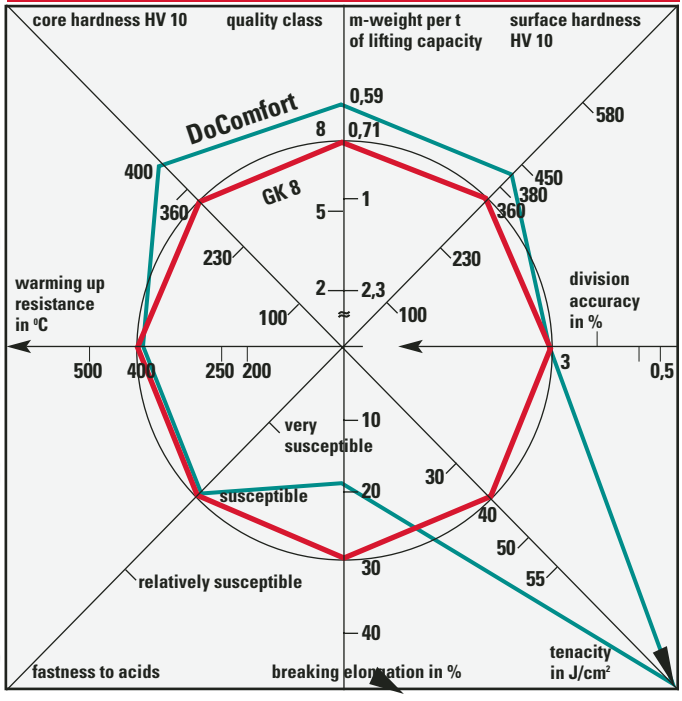
Here the technical properties of steel bar chains have been presented in form of a graphic diagram.

Steel bar chains are manufactured and structurally designed for the most different application purposes. In practice of lifting loads by means of hooking chains it was appearing again and again that the scope of performance of various steel bar chains is either not univocally known or is not correctly observed by the parties involved according to the accident prevention regulations; this is the reason why the graphic diagrams show the individual properties of the most different types of chains.

The steel bar chains have been divided into different quality classes and have been qualified according to their purpose (e.g. hooking chains , crane lifting chains). The most important properties of steel bar chains have been arranged clock- and star wise: quality class (strength), surface hardness, division accuracy, tenacity, breaking elongation, fastness to acids, warming up resistance and core hardness. At the same time the axis "quality class" has been combined with the per meter chain weight in length and per ton of lifting capacity . All the hooking chains have the high breaking elongation of at least 20% in common. This is in case of hooking chains an important quality mark enabling to recognise in time overload and to avoid an unexpected break.

Quality class 8, hooking chains





Steel bar chains technical properties and comparison of performances

With growing quality class the breaking elongation is smaller. On the other hand the per meter weights per ton of lifting capacity decrease distinctly with the growing quality class. So e.g. the per meter weight of the DoComfort hooking chain of special quality is almost four times lower than that of the quality class 2 chains – at the same lifting capacity!

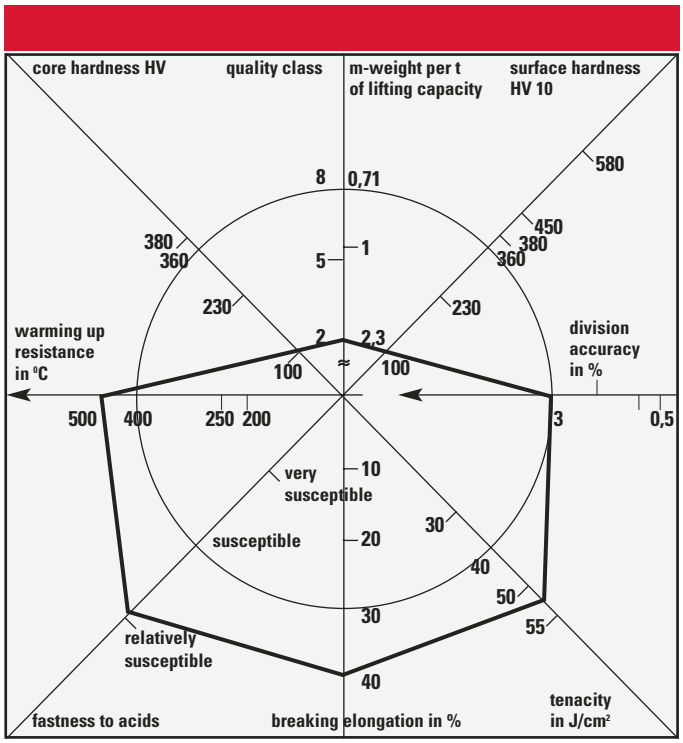
The high fastness to acids of the quality class 2 (made of RSt 3502 material without pure iron) and of quality class 5 (made of material 1.4571) is the reason for their application e.g. for pickling bath purposes.

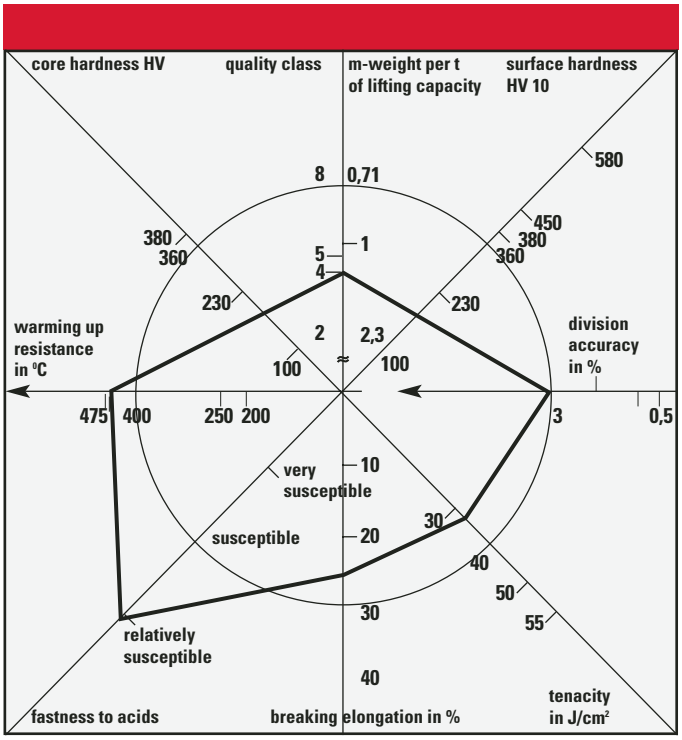
Hooking chains of quality class 4 are subject to the DIN EN 818-5 standard. Chains of quality class 8 are not allowed to be applied there due to the danger of pickle brittleness!

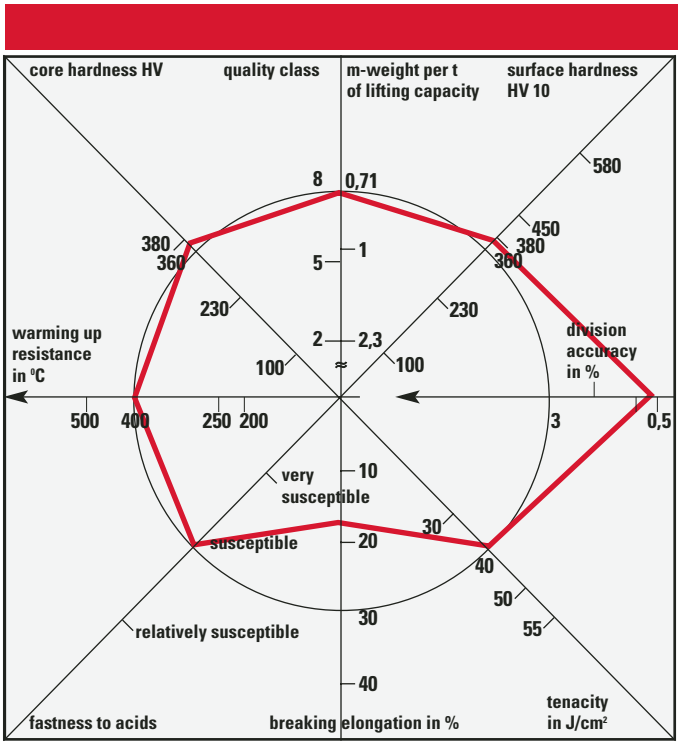
The hooking chains of the quality class 8 must suite for quite different requirements: high division accuracy and low elongation make sure a soft run on the chain wheel. Because of the low breaking elongation, crane lifting chains are not allowed to be applied as hooking chains.

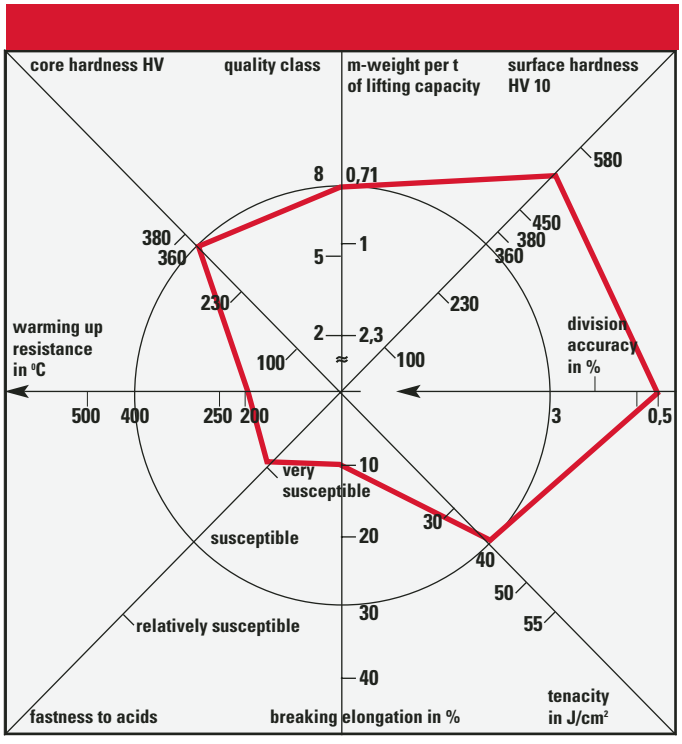
New:

Welded hooking chains for pickling + galvanizing purposes, DIN EN 815-5, quality class 4, please inquire.









Service manual for catching chains

DoKett 1+2

DoComfort

The DoKett catching chains are according to BGR 500 (former UVV VBG 9 a) means of slinging and they are meeting all the requirements of DIN EN 814-4.

The DoKett catching chains may be applied for lifting and transporting of loads only. According to BGR 500 they are allowed to be used only by persons respectively instructed and authorized by the company owner. This service manual is to be read carefully prior to the first use of the Dolezych products and observed.

It refers to the following Dolezych products:

- DoKett 1 – catching chains
- DoKett 2 – catching chains
- DoComfort – catching chains

For catching chains of other quality classes or execution please ask us for special information for the users.

We wish to draw your attention to the following regulations and technical rules which are also applicable:

- Catching chains, quality class 8/ DIN EN 818-4
- DIN 685 part 5, checked round steel bar chains; application
- DIN EN 818-6 catching chains; application and maintenance instruction
- ZH 1/323 safety rules for round steel bar chains as catching chains at hot galvanizing plants
- BGR 500 loading equipment in a lifting equipment plant
- ZH1/103 an instruction on safety dimensions for catching personnel

If necessary, also other regulations are to be observed, e.g. referring to the transport of dangerous loads.

Selection of the DoKett catching chains

- The DoKett chains are to be selected so, that because of their type, length and load catching method, they will be suitable, with the planned transport in mind, for reliable lifting the load without any undesirable moves. The wrong selection of lifting capacity and/or of catching method the break of the catching chain may take place!
- The DoKett catching chains are not suitable for loads with smooth or slippery surfaces or for loads with a temperature beyond -40°C up to +400°C (from +200°C with reduced lifting capacity).

The DoKett catching chains are never allowed to be charged by a load exceeding its lifting capacity!

The first application of DoKett catching chains

Prior to the first application of the selected DoKett catching chain, its identification and dimensionments are to be checked. Never use a DoKett catching chain with defects or with non existing markings !
Identification of DoKett catching chains Or DoKett catching chains have been supplied with a red, octagonal marking label. In case of DoComfort catching chains, a special label has been applied.

The data on the label are as follows:

- Lifting capacity for direct type of catching. In case of a suspensions consisting of more DoKett catching chains– data regarding lifting capacity for the ranges of inclination angle ß from 0° up to 45° and from 45° up to 60°. Data in t.
- Nominal rope thickness in mm
- Date of production
- Dolezych – as manufacturer
- CE-mark

With each catching chain you will get the producer's certificate. With each delivery Dolezych are confirming the conformity of the DoKett catching chains' with the EU machine direction with a Conformity Declaration.

The lifting capacities of single chain **DoKett-catching chains:**

nominal chain thickness mm	type of catching directly DoKett 1+2	lifting capacity t DoComfort	type of catching laced DoKett 1+2	DoComfort
6	1,12	1,40	0,90	1,12
7	1,50	-	1,20	-
8	2,00	2,50	1,60	2,00
10	3,15	4,00	2,50	3,20
13	5,30	6,70	4,25	5,35
16	8,00	10,00	6,30	8,00
18	10,00	12,50	8,00	10,00
19	11,20	-	8,90	-
20	12,50	-	10,00	-
22	15,00	19,00	12,00	15,00

Transport of loads

Always follow the good load catching practice: prior to starting the lifting process, plan the catching, lifting and transport.

1. Make preparations: fix the weight of load and its centre of gravity, read the accompanying documentation, pay attention to the marked points of hooking and the weight data mentioned on the load or weigh the load by means of a crane scale (DoLast). Estimating the weight and centre of gravity by means of the weight table is not an adequate solution.
   The crane hook may be hooked on the right place only after fixing the centre of gravity!
2. The crane operator is to be informed of the weight of load.
3. The crane hook is to be hung vertically over the load's centre of gravity.
4. Hooking the load.

Loads which have not been hooked on correctly, may slip or fall down. A falling down load may cause serious injuries and even death.

The load is to be hooked on in such a way that both a damage to the load, as well as to the catching chain itself will be avoided. In order to lift a load by avoiding its shifting or falling down, the following conditions are to be kept:

Service manual for catching chains

DoKett 1+2

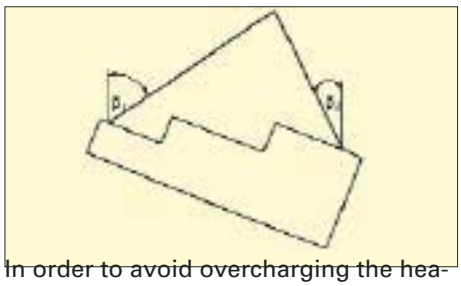
DoComfort

a) in case of single DoKett catching chains, the point of hooking should be located vertically over the load's centre of gravity.
b) in case of double leg DoKett catching chains the points of hooking should be located on both sides and above the load's centre of gravity.
c) in case of three and four leg DoKett catching chains the points of hooking should be located symmetrically on one level around the load's centre of gravity and above the load's centre of gravity.

The angle of inclination ß (angle between the perpendicular and the means of catching) must absolutely be observed: the bigger the angle of inclination, the smaller the lifting capacity. Angles of inclination of over 60° are not acceptable at all!

In case of three and four leg DoKett catching chains and an uneven load distribution, one should base on the lifting capacity of a double leg DoKett catching chain, depending on the biggest angle of inclination. When in case of double leg DoKett catching chains different angles of inclination take place (see the drawing), one should base on the lifting capacity of only one chain.

Example of the uneven angle of inclination ß:



In order to avoid overcharging the heavier charged chain, only one chain should be considered the lifting one!
One should always count with uneven loading when:

- the load is not flexible (e.g. elements of concrete, castings, short girders etc.),
- the position of the centre of gravity unknown is,
- the load has an uneven shape,
- different angles of inclination take place.

Use only appropriate and sufficiently dimensioned points of load catching!

Never catch under the surrounding chains! Attention: it is forbidden to hook in the hanging mode!

Exempted from this principal is hooking of:

- big size loads when constriction of the means of catching and a shift of the load are out of question,
- long, bar shaped loads under a traverse, when a inclined position of the traverse is prevented by force and the load is caught in such a way that it can not bend excessively. The inclined position of the traverse does not have to be prevented by force, when because of nature and the surface of the load or because of its hooking, prevented will be its slipping out or slipping out of its elements.

When applied under bound mode, the lifting capacity makes only 80% of the declared lifting capacity! One should also consider that a binding angle of 120° is to be set. When under the bound mode several chains are used, this should not result in the load's turning round.
When several DoKett catching chains are applied in a way that not all the chains are carrying chains, then the unused chains should be lifted and hung in the suspension head. The lifting capacity is respectively reduced to that of the used chains.

5. Abandoning the hazardous sector
6. Establishing communication with all involved in the process of hooking. Warning of not involved persons present in the hazardous sector of transport and of unloading.

Warning: as endangered persons are considered e.g. the hooking personnel and other persons present in the transport sector!

7. Signals to the crane operator should be given by one person only.
8. Under trial lifting watch, whether:
a) the load has been hooked well and fast,
b) the load is balanced, is properly hanging and
c) all chains are carrying equally,
9. not straight hanging loads should be lowered and fastened anew
10. Transport of load by crane
11. When transporting big size loads and in case of wind load, the load is to be led by means of a hand rope. The person with the hand rope should be moving outside the range of hazard, e.g. on the side instead of in front of mobile cranes.
12. Lowering the load according to instructions of the hooking person.
13. Securing the load against falling down resp. falling apart.
14. Removing from the load the means of hooking.
15. Hook resp. other means of catching is to be lifted and hung in the suspension head.
16. When lifting not engaged means of hooking one should take care that they do not hook on the load.

Important application and warning remarks:

- While working with the DoKett catching chains, protective gloves should be worn (injury hazard!).
- Avoid tearing or sharp pulling.
- DoKett catching chains are not allowed to be knotted or inversely charged.
- Shortening is allowed to be made only by means of shortening hooks or shortening claws. A special advice referring the shortening hook with eye: the DoKett catching chain is to be put into the shortening hook in such a way, that the chain being charged is in one line

Service manual for catching chains

DoKett 1+2

DoComfort

with the hanging eye of the shortening hook. Wrong application leads to damaging the DoKett catching chain and may result in falling down of load!

- The hooking links must freely move in the crane hook.
- Never charge the hook tip.
- In case of loads with sharp edges, the Dolezych chains are to be protected by means of linings (Dolezych edge protections, in emergency cases – timber cushions). Alternatively one may choose a chain one nominal size bigger as "sheathing". A sharp edge exists already when the edge radius r is smaller than the chain link diameter d.

It is particularly forbidden:

- binding together chain links with wire or connecting them with screws,
- connecting with each other chain links of different nominal thickness and in order to keep them together – putting in between a bolt or a nail,
- connecting with each other chain elements of different quality classes. DoKett 1+2 chain elements are also not allowed to be combined with the new quality class 8-E (DoComfort),
- hooking on a chain link with the hook's tip,
- using open or riveted emergency links,
- using DoKett catching chains after the break or deformation of a chain link,
- to continue using DoKett catching chains drawn stiff due to overload,
- to sling the DoKett catching chains several times around the cargo hook.

Storage of the DoKett catching chains

It is advisable to store the DoKett catching chains hanging on hangers.

Application of the DoKett catching chains in connection with chemicals:

The DoKett catching chains are not allowed to be exposed to any chemicals. One should take into consideration that already chemical vapours set free may cause increased brittleness or creation of cracks on the DoKett catching chains. It is forbidden to subject the DoKett catching chains to a galvanizing process.

Warning: subjecting DoKett catching chains to galvanizing bath and pickling at a hot dip galvinizing line is strictly forbidden!

The use of DoKett catching chains within different temperature ranges:

The DoKett catching chains are suitable for the application within the temperature ranges from –40°C up to +400°C.From +200°C the declared lifting capacity must be reduced to 90% and from +300°C to 75%

Regular checks:

The Dolezych catching chains are subject to the Decree on Work Safety (BetrSichV).

According to 3.15.2.1 of BGR 500, pos.2.8, the DoKett catching chains must be checked by an expert at intervals of one year, the most. At least once in three years a special check for cracks must be performed. Results of the checks are to be entered into the chain files. Take advantage of the Dolezych mobile control service !
We will check your catching chains either at the Dolezych Control Centre, in your facility or directly at site of application.

Depending on application conditions of the DoKett catching chains, checks may be necessary in a shorter than one year interval. This e.g. refers to cases of a very frequent use, of increased wear, in case of corrosion resp. heat influence or, when basing on experience, one should count with increased risk of damages. During the period of application, the user should regularly undertake visual inspections aimed at uncovering damages, including those covered by dirt, which might negatively affect a long lasting, safe use of the DoKett catching chains. In case of any doubts as to the condition of a DoKett catching chain, it should be withdrawn from use and subjected to a check by an expert.

Dolezych repair service

When your DoKett catching chains show failures, they can be repaired by an experienced Dolezych specialist. This will help you to save expenses. Never try to repair elements of DoKett catching chains yourself!
DoKett catching chains ready for disposing of:
The DoKett catching chains are not allowed to be used any more (are ready for disposing of) in case of:

- the break of a chain link,
- cracks, cuttings, notches, excessive corrosion, discolourations due to heat influence,
- deformation of a chain link, hooking link, intermediate or connecting link,
- decrease of the average link thickness by more than 10% of nominal thickness. The average link thickness is an average value of two diameters dimensiond at the same place but with a transposition of 90°,
- missing or illegible label with identification marks (the lifting capacity is to be reduced to that of quality class 2),
- unacceptable manipulations at DoKett catching chains (pls. find above respective examples),
- an elongation of the chain at any place by more than 3% (dimensiond outside a chain link),
- widening of hook by more than 10% (of throat width).

Operating instructions for lifting chains

DoKett 1+2

General indication of hazards:

When lifting loads the person beneath or next to the load is endangered. As manufacturers we have to draw your attention to residual hazards connected with handling of liftingappliances particularly with regard to the connection of the lifting appliances to the load. Furthermore it is possible that the load being lifted is swinging, and posing a hazard to the catching personnel. Falling down loads pose hazard both to persons and to goods.

As user take care that your personnel and crane operators get adequate education and training.

Lifting chains
Single leg
grade 80
DIN EN 818-4

DoKett 1+2

chain suspension single leg

	OHS	eye hook with strong safety lock YOS	master link AG	eye-foundry-hook YOW	safety hook self-closing YOZ	eye-swivel hook YOZW	Clevis hook YGS*	
	Pls. complete the article number with chain thickness „ . . "							
lifting capacity in t at 0°	nominal thickness of chains in mm	price per 1 meter of effective length 1917..01 EUR	1918 . . 01 EUR	1923..01 EUR	1904 . . 01 EUR	1921 . . 01 EUR	1922 . . 01 EUR	1944 . . 01 EUR	price per any add. meter EUR
1,12	06	47,10	44,80	38,80	-	67,70	95,50	43,10	8,00
1,50	07	55,35	49,65	44,50	59,10	76,40	110,40	47,60	8,30
2,00	08	57,35	50,80	45,40	60,00	77,20	111,25	48,40	9,10
3,15	10	74,00	61,20	55,20	75,35	96,20	134,30	58,70	11,50
5,30	13	112,75	89,70	79,60	115,00	140,70	197,30	87,15	20,00
8,00	16	154,60	123,00	105,00	159,15	199,50	294,00	118,10	25,20
10,00	18	254,75	214,15	167,60	321,10	387,00	433,00	312,10	39,40
12,50	20	286,95	245,80	210,00	335,30	419,00	447,00	327,00	57,30
15,00	22	-	318,55	229,40	-	-	-	-	72,50

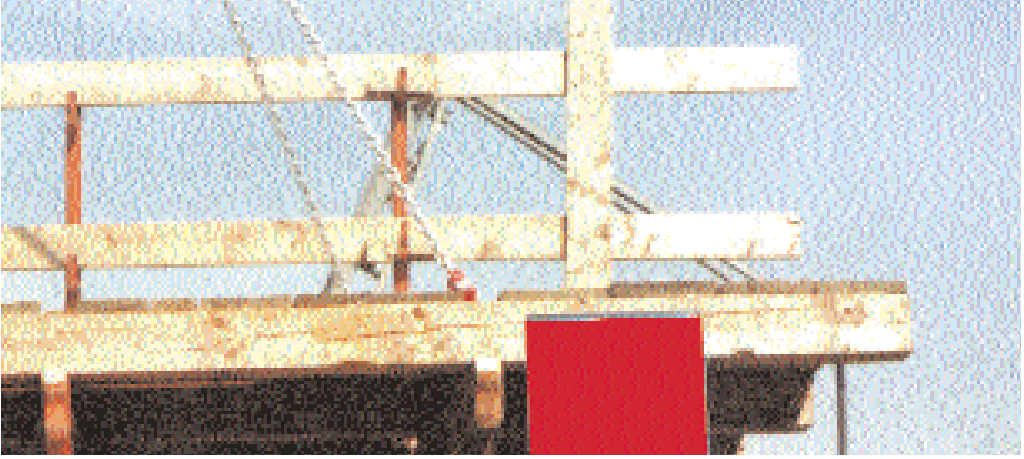
*DoKett 2 - which cannot be mistaken

chain suspension, single leg with shortening hook with eye YOV

	OHS	eye hook with strong safety lock YOS	master link AG	eye-foundry-hook YOW	safety hook self-closing YOZ	eye-swivel hook self-closing YOZW	Clevis hook YGS*	
	Pls. complete the article number with chain thickness „ . . "							
lifting capacity in t at 0°	nominal thickness of chain in mm	price per 1 meter of effective length 1927..01 EUR	1928 . . 01 EUR	1933..01 EUR	1935 . . 01 EUR	1931 . . 01 EUR	1932 . . 01 EUR	1945 . . 01 EUR	price per any add. meter EUR
1,12	06	54,90	52,60	46,60	-	75,50	103,40	58,00	8,00
1,50	07	67,30	61,50	56,50	62,85	88,30	122,40	59,50	8,30
2,00	08	69,30	62,30	57,30	64,85	89,10	123,30	69,90	9,10
3,15	10	92,70	79,60	73,80	85,20	114,80	152,80	76,50	11,50
5,30	13	142,10	119,70	108,70	127,90	169,70	226,30	115,00	20,00
8,00	16	193,10	161,20	143,00	186,10	238,00	332,20	154,80	25,20
10,00	18	254,80	273,00	227,80	352,00	438,25	517,00	351,20	39,40
12,50	20	347,20	305,60	273,00	355,00	469,75	531,00	359,80	57,30
15,00	22	-	605,00	470,00	-	-	-	-	72,50

*DoKett 2 - which cannot be mistaken

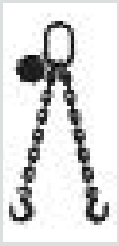
Example of order:
You would like to order as follows: 1 pce. single leg liftingchain with YOS eye hook. Nominal thickness 6 mm, 1 m long. And this is your order: 1 piece of art.no. 1918 0601, 1m effective length.



Lifting chains two legs grade 80 DIN EN 818-4

DoKett 1+2

chain suspension, two legs



Pls. complete the article number with chain thickness „ . . "

lifting capacity in t at β 0°-45°	β 45°-60°	nominal thickness of chains in mm	OHS 1917..02 EUR	eye hook with strong safety lock YOS 1918 . . 02 EUR	master link AG 1923..02 EUR	eye-foundry-hook YOW 1904 . . 02 EUR	safety hook self-closing YOZ 1921 . . 02 EUR	eye-swivel hook self-closing YOZW 1922 . . 02 EUR	Clevis hook YGS* 1944 . . 02 EUR	price per any add. meter EUR
1,60	1,12	06	90,70	86,20	74,20	-	132,00	187,60	82,80	16,00
2,12	1,50	07	100,60	92,30	82,20	108,20	145,80	214,00	88,65	16,60
2,80	2,00	08	108,10	95,00	84,90	110,00	148,50	216,60	91,20	18,20
4,25	3,15	10	144,20	118,60	106,70	143,20	188,80	265,00	119,90	23,00
7,50	5,30	13	217,70	173,80	151,50	210,50	273,70	386,60	166,80	40,00
11,20	8,00	16	303,80	240,70	204,60	306,20	393,60	587,00	231,10	50,40
14,00	10,00	18	495,50	414,00	321,00	557,40	760,00	657,00	539,60	78,80
17,00	12,50	20	554,50	473,00	406,00	594,00	819,00	858,00	577,00	114,80
21,20	15,00	22	-	651,00	451,60	-	-	-	-	145,00

*DoKett 2 - which cannot be mistaken

chain suspensions, two legs with shortening hook with eye YOV

Pls. complete the article number with chain thickness „ . . "

lifting capacity in t at β 0°-45°	β 45°-60°	nominal thickness of chains in mm	OHS 1927..02 EUR	eye hook with strong safety lock YOS 1928 . . 02 EUR	master link AG 1933..02 EUR	eye-foundry-hook YOW 1935 . .02 EUR	safety hook self-closing YOZ 1931 . . 02 EUR	eye-swivel hook self-closing YOZW 1932 . . 02 EUR	Clevis hook YGS* 1945 . . 02 EUR	price per any add. meter EUR
1,60	1,12	06	106,50	101,80	89,80	-	147,50	203,20	110,10	16,00
2,12	1,50	07	127,70	116,60	106,00	119,13	169,70	237,70	111,50	16,60
2,80	2,00	08	132,80	118,80	108,70	124,60	173,40	240,40	114,10	18,20
4,25	3,15	10	181,70	155,60	143,80	160,10	226,00	302,00	149,50	23,00
7,50	5,30	13	276,40	232,00	209,60	249,40	334,80	444,70	222,80	40,00
11,20	8,00	16	380,90	317,00	281,00	366,70	470,00	659,00	304,40	50,40
14,00	10,00	18	616,15	534,00	441,00	642,50	880,00	971,00	632,00	78,80
17,00	12,50	20	675,70	592,00	526,70	658,00	938,00	984,00	659,00	114,80
21,20	15,00	22	-	1188,00	917,00	-	-	-	-	145,00

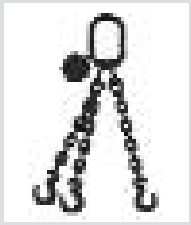
*DoKett 2 - which cannot be mistaken

You can find our reviewing service for chains on page 8.

Lifting chains three legs grade 80 DIN EN 818-4

DoKett 1+2

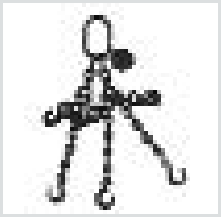
chain suspension, three legs



lifting capacity in t at β 0°-45°	lifting capacity in t at β 45°-60°	nominal thickness of chains in mm	OHS 1917..03 EUR	eye hook with strong safety lock YOS 1918 . . 03 EUR	master link AG 1926 ..03 EUR	eye-foundry hook YOW 1904 . . 03 EUR	safety hook self-closing YOZ 1921 . . 03 EUR	eye-swivel hook self-closing YOZW 1922 . . 03 EUR	Clevis hook YGS* 1944 . . 03 EUR	price per any add. meter EUR
			Pls. complete the article number with chain thickness „ . . " price per 1 meter of effective length							
2,36	1,70	06	141,90	135,00	117,10	-	203,60	287,20	129,70	24,00
3,15	2,24	07	166,90	149,80	134,60	175,00	230,00	332,10	143,90	24,90
4,25	3,00	08	172,90	152,10	137,00	175,50	232,50	334,50	146,00	27,30
6,70	4,75	10	229,70	191,10	173,40	238,40	296,40	410,50	183,90	34,50
11,20	8,00	13	347,80	281,60	248,40	352,60	431,50	599,80	270,50	60,00
17,00	11,80	16	489,80	394,70	349,60	497,00	624,70	908,00	391,60	75,60
21,20	15,00	18	826,80	704,00	564,30	967,00	1223,00	1310,00	749,00	118,20
26,50	19,00	20	917,90	794,00	695,00	1049,00	1314,00	1360,00	1023,00	172,20
31,50	22,40	22	-	1099,00	769,00	-	-	-	-	217,50

*DoKett 2 - which cannot be mistaken

chain suspension, three legs with shortening hook with eye YOV



lifting capacity in t at β 0°-45°	lifting capacity in t at β 45°-60°	nominal thickness of chains in mm	OHS 1927..03 EUR	eye hook with strong safety lock YOS 1928 . . 03 EUR	master link AG 1933..03 EUR	eye-foundry hook YOW 1935 . . 03 EUR	safety hook self-closing YOZ 1931 . . 03 EUR	eye-swivel hook self-closing YOZW 1932 . . 03 EUR	Clevis hook YGS* 1945 . . 03 EUR	price per any add. meter EUR
			Pls. complete the article number with chain thickness „ . . " price per 1 meter of effective length							
2,36	1,70	06	166,20	158,60	140,60	-	227,20	310,80	176,90	24,00
3,15	2,24	07	202,90	185,70	170,40	186,40	265,80	368,00	178,10	24,90
4,25	3,00	08	209,00	187,90	177,70	195,70	268,20	370,20	180,50	27,30
6,70	4,75	10	285,90	246,70	229,00	259,70	352,00	476,10	236,90	34,50
11,20	8,00	13	435,90	368,70	335,40	393,60	518,70	687,90	354,10	60,00
17,00	11,80	16	605,80	510,00	455,50	584,10	738,40	1023,00	506,00	75,60
21,20	15,00	18	1007,40	883,00	743,00	1030,00	1399,00	1543,00	912,00	118,20
26,50	19,00	20	1098,50	973,00	873,00	1084,00	1493,00	1573,00	1099,00	172,20
31,50	22,40	22	-	1852,00	1445,00	-	-	-	-	217,50

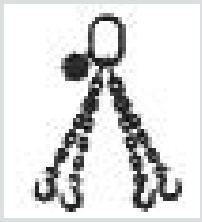
Dimension L =
When ordering pls. state the effective length

The master link has to be free movable on the crane hook, otherwise you require reduced suspension. (s.ill)

Lifting chains four legs grade 80 DIN EN 818-4

DoKett 1+2

chain suspensions , four legs



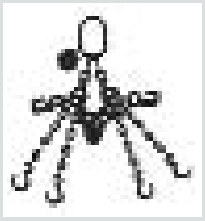
	OHS	eye hook with strong safety lock YOS	master link AG	eye-foundry hook YOW	safety hook self-closing YOZ	eye-swivel hook self-closing YOZW	Clevis hook YGS*

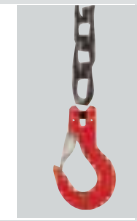
Pls. complete the article number with chain thickness „ . . "

lifting capacity in t at β 0°-45°	lifting capacity in t at β 45°-60°	nominal thickness of chains in mm	1917..04 price per 1 meter of effective length EUR	1918 . . 04 EUR	1923..04 EUR	1904 . . 04 EUR	1921 . . 04 EUR	1922 . . 04 EUR	1944 . . 04 EUR	price per any add. meter EUR
2,36	1,70	06	182,20	174,50	150,70	-	266,20	377,50	164,50	32,00
3,15	2,24	07	212,90	192,40	172,30	221,60	299,50	435,70	181,20	33,20
4,25	3,00	08	220,70	195,60	175,50	225,30	302,70	439,00	184,10	36,40
6,70	4,75	10	293,30	244,20	220,20	298,00	384,70	537,00	229,80	46,00
11,20	8,00	13	444,30	359,80	315,40	444,30	554,60	786,00	338,70	80,00
17,00	11,80	16	627,80	502,00	429,30	693,70	807,30	1184,00	471,90	100,80
21,20	15,00	18	1059,80	890,70	704,50	1170,00	1583,00	1670,00	1134,00	157,60
26,50	19,00	20	1163,30	998,00	866,00	1261,00	1692,00	1720,00	1219,00	229,60
31,50	22,40	22	-	1295,00	961,00	-	-	-	-	290,00

*DoKett 2 - which cannot be mistaken

chain suspension, four legs with shortening hook with eye YOV



	OHS	eye hook with strong safety lock YOS	master link AG	eye-foundry hook YOW	safety hook self-closing YOZ	eye- swivel hook self-closing YOZW	Clevis hook YGS*
							

Pls. complete the article number with chain thickness „ . . "

lifting capacity in t at β 0°-45°	lifting capacity in t at β 45°-60°	nominal thickness of chains in mm	1927..04 price per 1 meter of effective length EUR	1928 . . 04 EUR	1933..04 EUR	1935 . . 04 EUR	1931 . . 04 EUR	1932 . . 04 EUR	1945 . . 04 EUR	price per any add. meter EUR
2,36	1,70	06	213,80	206,10	182,10	-	297,50	409,00	227,40	32,00
3,15	2,24	07	261,00	240,10	220,00	244,10	347,20	483,40	230,50	33,20
4,25	3,00	08	268,80	243,30	223,10	254,20	350,40	486,80	233,60	36,40
6,70	4,75	10	368,30	313,40	294,80	337,10	458,70	611,00	305,70	46,00
11,20	8,00	13	561,60	476,00	431,60	510,00	671,00	899,00	457,00	80,00
17,00	11,80	16	782,10	683,00	582,00	753,00	961,00	1338,00	655,50	100,80
21,20	15,00	18	1294,90	1129,00	943,40	1298,00	1821,00	1956,00	1322,00	157,60
26,50	19,00	20	1404,60	1238,00	1104,00	1352,00	1931,00	2003,00	1347,00	229,60
31,50	22,40	22	-	2365,00	1824,00	-	-	-	-	290,0

*DoKett 2 - which cannot be mistaken

Special hooking heads for bigger crane hooks

Lifting chains with special hooking heads for bigger crane hooks, e.g. no.16, 25 and 50 may be delivered on request.

DoClick lifting chains grade 80 DIN EN 818-4

DoKett

New lifting hook with integrated possibility of shortening and securing.

- **Application as a hook within a chain suspension**
  The lifting shortening hook is always hooked into the end of individual chains.

- **Application as a hook in a symmetrically shortened chain suspension**
  The lifting shortening hook is to be hung on the same level of each individual chain. Thus you will get a chain suspension of changing length. Now the surplus uncharged chain will be hung up by its snap hook.

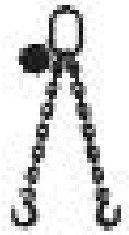
- **Application as shortening hook in a chain suspension**
  The lifting shortening hook is to be hung asymmetrically on the required level on the individual chains. Now the surplus uncharged chain will be hung up by its snap clip hook.

Advantage: shortening directly within the range of working, no lowering of the complete crane hook necessary.

Chain suspension, single leg with DoClick hook

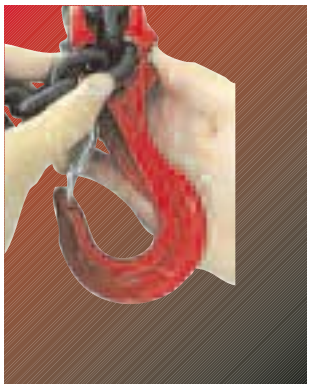
article no.	nominal size in mm	lifting capacity keit in t at inclination angle of 0°	price per 1 m of effective length EUR	price per any add. meter EUR
1960 0601	6-8	1,12	50,40	8,00
1960 0801	8-8	2,00	53,30	9,10
1960 1001	10-8	3,15	75,70	11,50
1960 1301	13-8	5,30	113,80	20,00
1960 1601	16-8	8,00	153,30	25,20

Chain suspension, double leg with DoClick hook



article no.	nominal size in mm	lifting capacity in t at inclination angle of ß 0-45°	ß 45-60°	price per 1 m of effective length EUR	price per any add. meter EUR
1960 0602	6-8	1,60	1,12	96,80	16,00
1960 0802	8-8	2,80	2,00	112,90	18,20
1960 1002	10-8	4,25	3,15	147,70	23,00
1960 1302	13-8	7,50	5,30	220,75	40,00
1960 1602	16-8	11,20	8,00	306,55	50,40

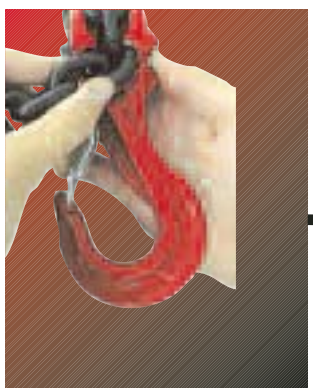
This is the way DoClick acted as a lifting hook



Press safety bolt

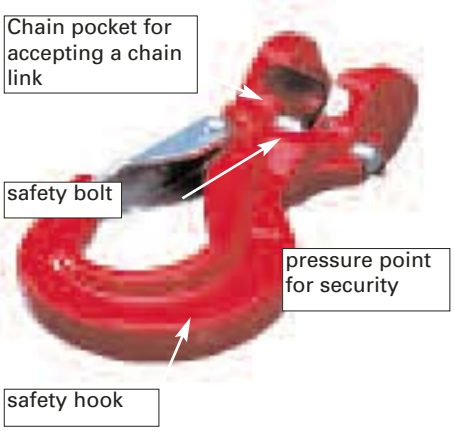
DoClick as safety hook

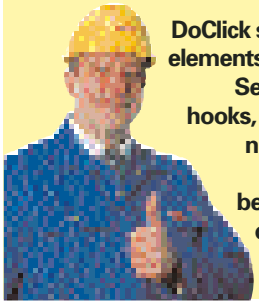
This is the way DoClick acted as a...



Press safety bolt

Put the chain into the chain pocket





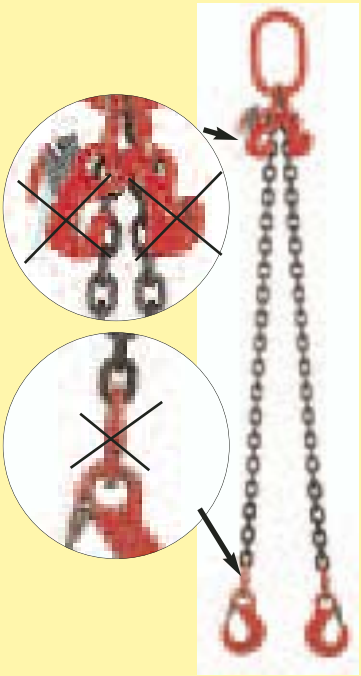
DoClick saves on structure elements,time and money. Separate shortening hooks, coupling and connecting links are no more necessary, because DoClick is a catching hook and shortener in one.

DoClick lifting chains grade 80 DIN EN 818-4

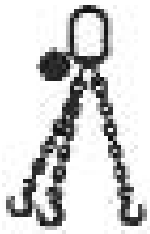
DoKett

You are saving structure elements here!

As compared with a suspension of two chains with separate shortening claws, with DoClick you save 4 structure elements: 2 x shortening hooks and 2 x chain links



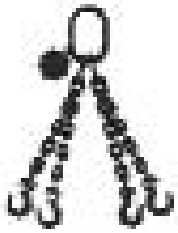
chain suspension with DoClick hook, three legs



article no.	nomial size in mm	lifting capacity in t inclination angle of ß 0-45°	ß 45-60°	price per 1 m of effective length EUR	price per any add. meter EUR
1960 0603	6-8	2,36	1,70	151,10	24,00
1960 0803	8-8	4,25	3,00	178,70	27,30
1960 1003	10-8	6,70	4,75	234,60	34,50
1960 1303	13-8	11,20	8,00	350,70	60,00
1960 1603	16-8	17,00	11,80	485,50	75,60

New!

chain suspension with DoClick hook, four legs

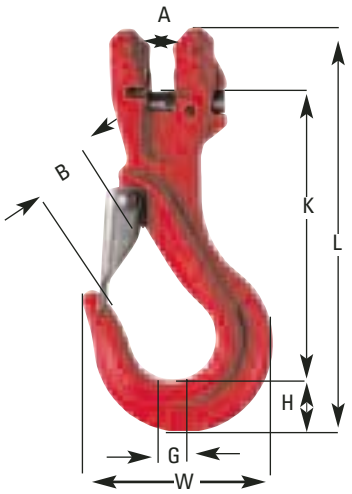


article no.	nomial size in mm	lifting capacity in t inclination angle of ß 0-45°	ß 45-60°	price per 1 m of effective length EUR	price per any add. meter EUR
1960 0604	6-8	2,36	1,70	198,40	32,00
1960 0804	8-8	4,25	3,00	233,35	36,40
1960 1004	10-8	6,70	4,75	302,80	46,00
1960 1304	13-8	11,20	8,00	452,70	80,00
1960 1604	16-8	17,00	11,80	649,50	100,80

article no.	nominal size	lifting capacity in t	dimensions in mm L	B	G	H	K	W	A	weight ca. kg	price/piece EUR
0982 1306	6	1,12	135	22	15	18	106	65	6	0,6	36,25
0982 1307	7/8-8	2,00	178	27	18	22	141	82	9	0,8	38,75
0982 1310	10-8	3,15	210	34	23	29	161	103	12	1,0	47,75
0982 1313	13-8	5,30	225	44	30	37	195	134	17	1,6	61,85
0982 1316	16-8	8,00	304	48	38	48	229	159	20	3,5	134,10

Release safety bolt

Hang chain surplus upwards by the help of carabine- ready

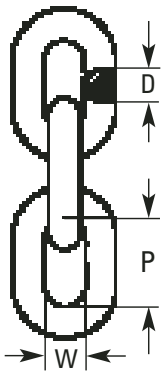


Chains, chain links and master links, suspension heads grade 80 DIN EN 1677

DoKett

Only short link chains with a division which does not exceed the threefold chain diameter are allowed to be applied.

DIN EN 818-2 chain, grade 80



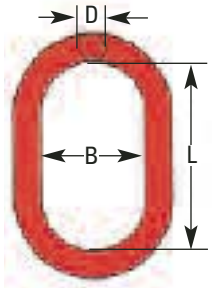
article no.	nominal thickness	lifting capacity t	dimensions in mm D	W	P	weight per meter kg/m	price per 100 m EUR
3970 0006	6-8	1,12	6	7,8	18	0,80	725,00
3970 0007	7-8	1,50	7	9,1	21	1,10	748,20
3970 0008	8-8	2,00	8	10,4	24	1,40	833,20
3970 0010	10-8	3,15	10	13,0	30	2,20	1042,90
3970 0013	13-8	5,30	13	16,9	39	3,80	1813,80
3970 0016	16-8	8,00	16	20,8	48	5,70	2505,20
3970 0018	18-8	10,00	18	23,4	54	7,30	3927,80
3970 0019	19-8	11,20	19	24,7	57	7,80	4347,20
3970 0020	20-8	12,50	20	26,0	60	9,00	5713,60
3970 0022	22-8	15,00	22	28,6	66	10,90	7250,00

Chains of high strength are available, on request, also in a **corrosion proof execution**. The corrosion resistance is applied in a special process and surpasses the qualities of galvanizing. Even these chains are then required to be supplied with harder joints than in lifting chains.
Please inquire corrosion resistant chains!

Chain links

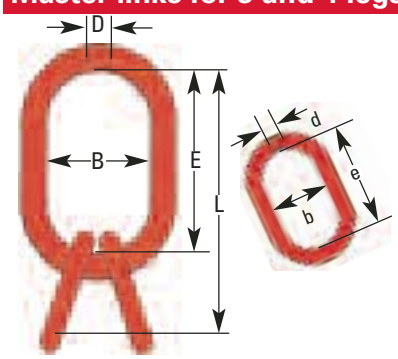
article no.	nominal thickness	dimensions in mm K	A	D	B	lifting capacity t	weight kg ca.	price per piece EUR
0905 1006	6-8	44	15	7	17	1,12	0,1	8,80
0905 1007	7/8-8	59	18	9	22	2,00	0,2	9,50
0905 1010	10-8	68	26	13	27	3,15	0,3	11,90
0905 1013	13-8	91	30	16	36	5,30	0,7	14,95
0905 1016	16-8	101	36	19	39	8,00	1,1	23,60
0905 1019	18/20-8	122	42	23	44	12,50	1,7	37,60
0905 1022	22-8	152	49	24	59	15,00	3,0	51,00

Master links for single and double legs chain lifting suspensions / master link AG

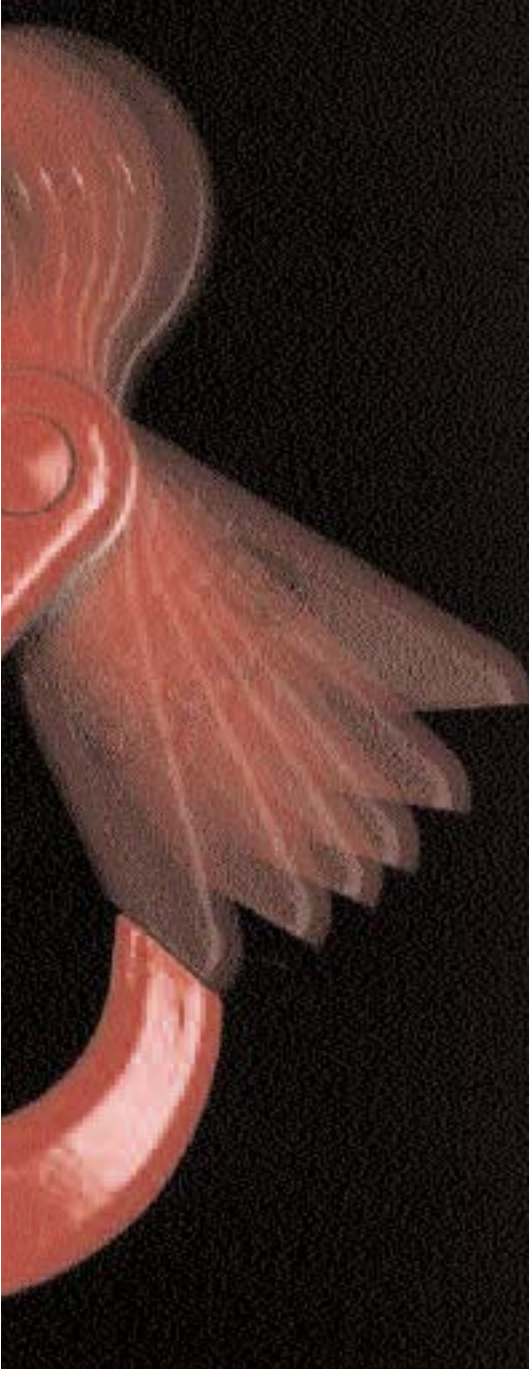


article no.	nominal size for single chain suspensions	nominal size for 2-chain suspensions	dimensions in mm D	L	B	suitable for regular hook DIN EN 15 401 no.	weight ca. kg	price per piece EUR
0905 3607	6 /7- 8	6-8	13	110	60	2,5	0,3	4,70
0905 3677	8 - 8	7-8	16	110	60	2,5	0,5	6,20
0905 3610	10 - 8	8-8	18	135	75	5,0	0,8	7,60
0905 3613	13 - 8	10-8	22	160	90	6,0	1,5	11,15
0905 3616	16 - 8	13-8	26	180	100	8,0	2,3	16,05
0905 3618	18 - 8	16-8	32	200	110	10,0	3,9	26,90
0905 3619	20/22 - 8	18-8	36	260	140	16,0	6,3	40,00
0905 3620		20-8	40	300	160	20,0	9,0	61,75
0905 3622	26 - 8	22-8	45	340	180	25,0	13,0	84,60

Master links for 3 and 4 legs, chain lifting suspensions



article no.	nominal size	D	L	B	dimensions in mm E	d	e	b	suitable for regular hook DIN 15 401 N0.	weight ca. kg	price per piece EUR
0905 3707	6/7-8	18	189	75	135	13	54	25	5	1,2	13,40
0905 3708	8-8	22	230	90	160	16	70	34	6	2,2	19,90
0905 3710	10-8	26	265	100	180	18	85	40	8	3,4	27,10
0905 3713	13-8	32	315	110	200	22	115	50	10	6,0	43,20
0905 3716	16-8	36	400	140	260	26	140	65	16	10,0	73,25
0905 3718	18-8	45	490	180	340	32	150	70	25	18,9	140,90
0905 3719	19/20-8	51	500	190	350	32	150	70	32	23,3	175,90
0905 3722	22 - 8	51	520	190	350	36	170	75	32	25,8	193,70



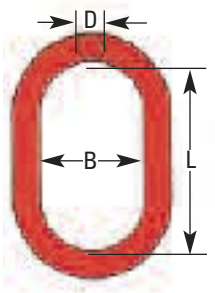
The high strength chains of quality grade 80 and grade 100 are not allowed to be applied in the environment of acids or for pickling. There is a danger of hydrogen cracking!

End link grade 80

DIN EN 1677

DoKett

End-link EG



article no.	nominal size	dimensions in mm D	L	B	weight ca. kg	price per piece EUR
0908 0006	6-8	13	54	25	0,18	6,00
0908 0008	7-8/8	16	70	34	0,36	8,60
0908 0010	10-8	18	85	40	0,53	9,20
0908 0013	13-8	22	115	50	1,06	12,00
0908 0016	16-8	26	140	65	1,82	17,70
0908 0019	18/20-8	32	150	70	3,05	29,80

Wide throat hook YOW

article no.	nominal size	dimensions in mm K	P	A	D	T	H	weight ca. kg	price per piece EUR
0905 4607	7/8-8	123	61	24	12	19	30	0,7	21,40
0905 4610	10-8	150	74	32	15	24	34	1,2	27,40
0905 4613	13-8	180	88	40	19	32	42	2,3	41,00
0905 4616	16-8	215	98	50	25	41	50	4,0	58,30
0905 4619	18/20-8	248	112	60	26	45	57	6,0	85,20

Burden the hook on the throat bottom, never on the tip!

Eye hook, self-locking YOZ

article no.	nominal size	dimensions in mm K	P	A	D	T	H	weight ca. kg	price per piece EUR
0908 0206	6-8	110	29	21	10	15	20	0,5	34,90
0908 0208	7/8-8	136	34	25	11	20	24	0,8	39,90
0908 0210	10-8	167	45	32	13	26	30	1,5	50,40
0908 0213	13-8	207	54	40	16	30	38	2,8	75,50
0908 0216	16-8	252	62	52	21	40	48	5,6	123,50
0908 0219	18/20-8	282	68	64	23	48	57	7,9	196,60
0908 0222	22-8	319	82	70	24	49	63	11,2	320,00

Charge the hook on the throat bottom, never on hook tip!

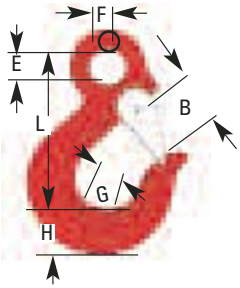
Do not carry out jerky moves with the crane. When lowering the load, take care that right bases (e.g. timber beams) are applied to enable pulling the means of slinging under the load. Chains are not allowed to be knotted or to encircle sharp edges. For sharp edges should be applied a chain of one nominal thickness stronger than necessary for the regular lifting capacity. This will prevent bending of chain links; the chain is so to say armoured.

Hooks grade 80

DIN EN 1677

Dolfett

OHS hooks

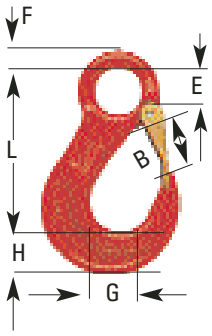


article no.	nominal size	dimensions in mm L	B	E	F	G	H	weight ca. kg	price per piece EUR
0908 8106	6-8	103	26	24	12	23	30	0,6	12,55
0908 8107	7-8	113	27	25	12	26	31	0,8	16,60
0908 8108	8-8	119	27	32	16	31	34	1,0	17,80
0908 8110	10-8	133	33	30	18	30	42	1,5	25,10
0908 8113	13-8	192	44	39	21	43	47	3,5	42,70
0908 8116	16-8	215	55	56	27	40	55	5,5	72,40
0908 8119	18/20-8	234	60	61	33	43	63	7,6	116,60

Eye hook with stable safety latch YOS

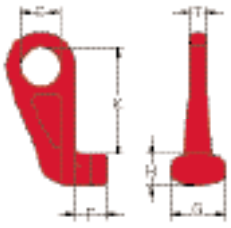
article no.	nominal size	dimensions in mm K	P1	A	D	T	H	weight ca. kg	price per piece EUR
0905 7506	6-8	80	24	20	9	16	20	0,3	11,80
0905 7507	7/8-8	98	30	25	11	19	23	0,4	12,70
0905 7510	10-8	121	36	32	15	23	31	0,8	14,70
0905 7513	13-8	152	43	40	18	28	38	1,7	24,60
0905 7516	16-8	183	47	50	22	32	47	3,2	34,10
0905 7519	18/20-8	217	52	60	27	43	48	5,2	84,50
0905 7522	22 - 8	240	70	50	32	50	74	8,5	138,70

Hook OSE with stable safety latch



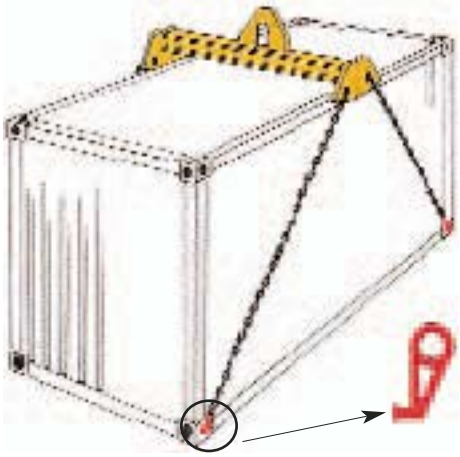
article no.	nominal size	dimensions in mm L	B	E	F	G	H	weight ca. kg	price per piece EUR
0909 0106	6-8	80	20	20	8	14	20	0,27	10,65
0909 0108	7/8-8	95	24	25	11	19	27	0,50	11,40
0909 0110	10-8	120	29	34	14	23	33	0,90	14,45
0909 0113	13-8	150	35	42	17	29	40	1,50	24,00
0909 0116	16-8	183	44	52	22	35	49	2,75	40,50
0909 0120	18/20-8	217	54	62	25	42	55	4,90	76,50

Container hook, for oversee containers, 12,5 t YCO

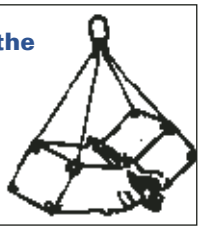


article no.	design	dimensions in mm K	E	F	T	G	H	weight ca. kg	price per piece EUR
0905 0004	straight	192	70	46	25	75	48	4	59,40
0905 0003	to the left	192	70	46	25	75	48	4	103,60
0905 0005	to the right	192	70	46	25	75	48	4	103,60

Container traverses Do 112 plus loading equipment with 4 chains or ropes may be found on page 284



Do not lift at the vertices.

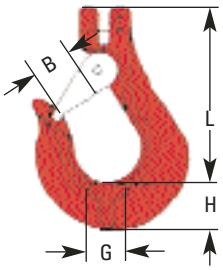


Hooks grade 80

DIN EN 1677

DoKett

Clevis hook GHS

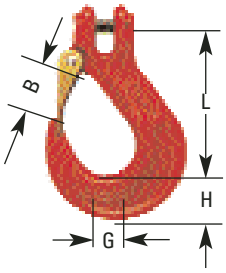


article no.	nominal size	dimensions in mm L	B	G	H	weight ca. kg	price per piece EUR
0907 6106	6/7-8	100	23	21	31	0,6	17,20
0907 6107	7-8	106	27	23	33	0,8	19,00
0907 6108	8-8	116	29	30	36	1,0	20,10
0907 6110	10-8	126	34	31	44	1,6	26,70
0907 6113	13-8	175	45	42	51	3,5	42,90
0907 6116	16-8	185	60	38	58	5,0	72,40
0907 6119	18/20-8	205	56	45	71	7,9	125,10

Clevis hook with stable safety-latch YGS

article no.	nominal size	dimensions in mm K	P1	T	H	weight ca. kg	price per piece EUR
0907 6206	6-8	78	22	15	18	0,3	17,45
0907 6207	7/8-8	95	30	19	23	0,5	18,85
0907 6210	10-8	120	36	23	31	1,0	23,25
0907 6213	13-8	147	44	28	38	2,1	38,10
0907 6216	16-8	169	46	33	44	3,7	62,30
0907 6219	18/20-8	190	60	50	52	6,0	120,70

Clevis hook GSE with stable safety latch



article no.	nominal size L	dimensions in mm D	G	H	weight ca. kg	price per piece EUR
0909 0206	6-8	73	24	14	20	0,24	11,40
0909 0208	7/8-8	86	35	19	27	0,53	13,20
0909 0210	10-8	105	30	23	33	0,95	29,00
0909 0213	13-8	128	41	28	40	1,67	32,00
0909 0216	16-8	155	45	37	48	3,00	57,80
0909 0220	18/20-8	183	52	46	52	5,70	99,00

YAS weld-on hook *

article	lifting capacity t	dimensions in mm P	L	T	H	F	W	A	M	weight ca. kg	price per piece EUR
0982 0810	1,0	22	73	17	23	25	95	7	4	0,6	35,15
0982 0820	2,0	29	88	21	30	30	114	9	5	1,0	38,50
0982 0830	3,0	29	106	23	30	35	133	10	6	1,4	42,75
0982 0840	4,0	31	112	29	39	42	142	12	7	1,9	54,40
0982 0850	5,0	34	131	30	46	45	166	13	8	2,8	80,60
0982 0880	8,0	35	133	39	51	50	173	13	9	3,5	91,10
0982 0891	10,0	50	170	44	60	56	221	14	9	6,2	132,10

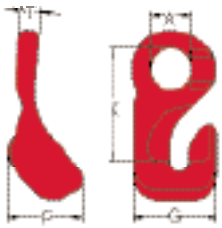
*** Please observe welding regulations.**

Shortening hooks shortening claws

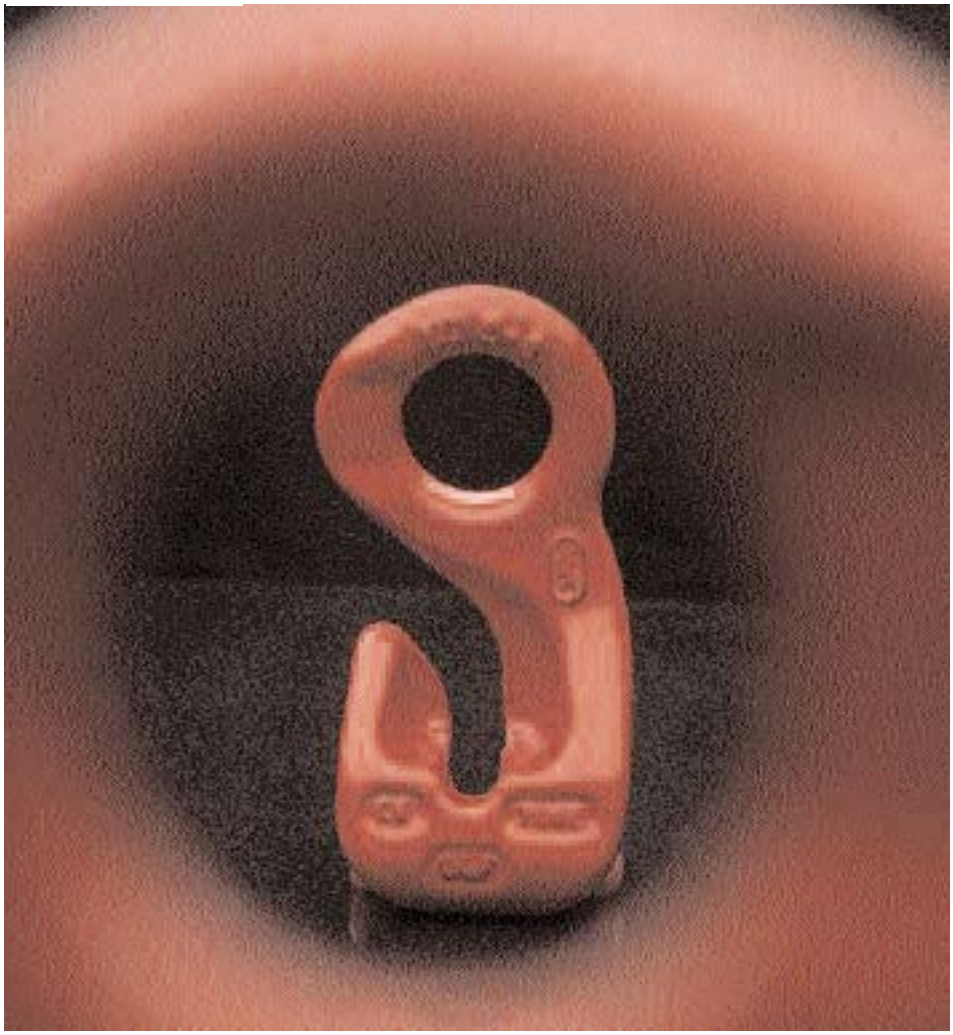
grade 80
DIN EN 1677

DoKett

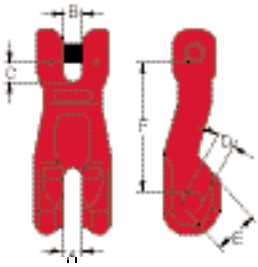
Shortening hook with eye YOV



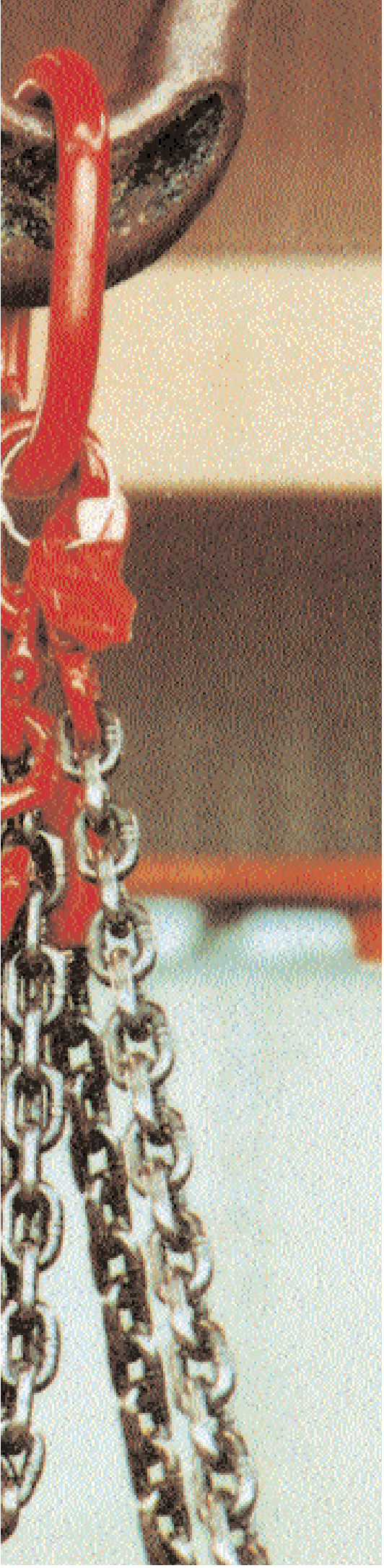
article no.	nominal size	dimensions in mm K	G	A	T	F	weight ca. kg	price per piece EUR
0905 1706	6-8	54	38	20	10	38	0,2	10,60
0905 1707	7/8-8	67	49	25	12	44	0,4	10,70
0905 1710	10-8	75	60	32	14	57	0,8	16,80
0905 1713	13-8	106	80	40	19	72	1,9	26,60
0905 1716	16-8	131	97	50	22	88	3,2	38,60
0905 1719	18/20-8	160	114	60	27	105	5,9	60,40



Shortening claw YVK



article no.	nominal size	dimensions in mm A,B	C	D	E	F	weight ca. kg	price per piece EUR
0905 1806	6-8	6	8	7	11	45	0,2	11,40
0905 1807	7/8-8	8	10	9	16	62	0,4	12,10
0905 1810	10-8	12	14	12	25	87	0,8	23,50
0905 1813	13-8	16	17	15	32	115	1,9	34,90
0905 1816	16-8	20	19	19	39	143	3,2	58,20
0905 1820	18/20-8	21	23	22	46	152	5,9	159,00

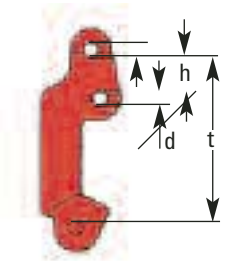


Shortening hooks shortening claws

grade 80
DIN EN 1677

DoKett

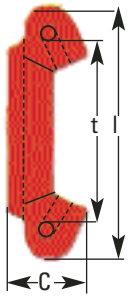
Shortening claw IK



article no.	nominal size	dimensions in mm d	h	t	weight ca. kg	price per piece EUR
0981 9106	6-8	8	14	81	0,3	31,50
0981 9107	7-8	8,8	18	97	0,5	33,60
0981 9108	8-8	10	19	104	0,8	35,20
0981 9110	10-8	12	26	139	1,2	47,80
0981 9113	13-8	13	36	179	2,6	58,80

The shortening claw IK is also available with protection – please inquire!

Shortening claw DVK



article no.	nominal size	dimensions in mm c	l	t	price per piece EUR
0981 9006	6-8	32	100	79	13,50
0981 9007	7-8	37	104	80	19,95
0981 9008	8-8	42	142	91	25,50
0981 9010	10-8	53	162	121	32,40
0981 9013	13-8	69	210	160	44,90

The shortening claw IK is also available with protection – please inquire!

Swivel hook shackle grade 80 DIN EN 1677

Swivel hook, self-locking. Swivel with slide bearing of brass gets closed automatically when under charge. Also may be delivered with ball bearings. Please inquire.

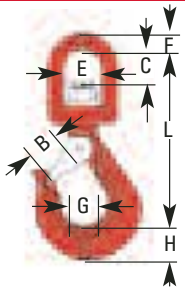
article no.	nominal size	dimensions in mm K	P	B	A	D	T	H	weight ca. kg	price per piece EUR
0908 0406	6-8	123	29	17	32	11	15	22	0,6	64,50
0908 0408	7/8-8	151	35	21	36	13	20	26	1,1	75,60
0908 0410	10-8	171	45	27	41	16	26	34	2,0	90,60
0908 0413	13-8	209	53	34	46	21	30	42	3,8	135,15
0908 0416	16-8	265	62	40	60	23	40	65	6,8	229,00
0908 0420	18/20-8	358	68	82	74	25	48	65	11,6	335,00

As a matter of principle please keep observing when hook is in the range of rope or chain!

The load axis must be parallel to the hook axis. Bending places must be excluded.

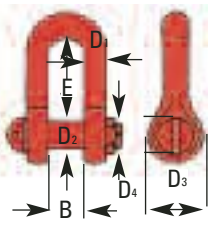
Swivel hook WHS with slide bearing of brass. Also available with ball bearings

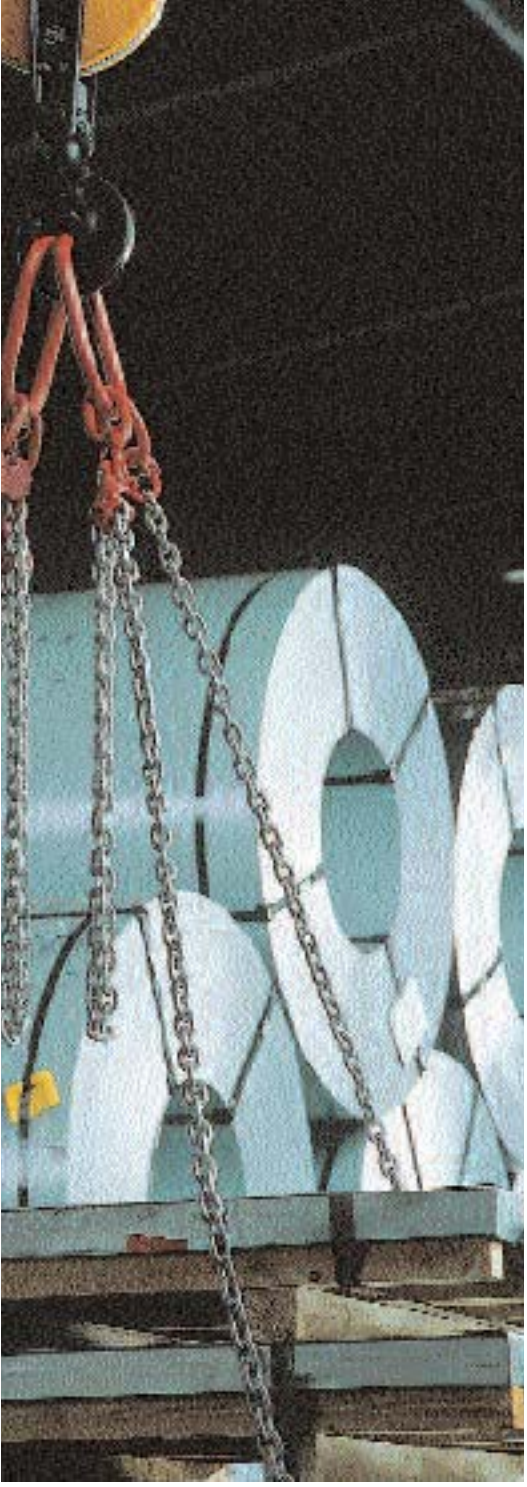
article no.	nominal size	dimensions in mm E	C	B	H	L	F	G	weight ca. kg	price per piece EUR
0908 1806	6-8	28	21	19	27	128	10	21	0,6	24,10
0908 1807	7-8	35	30	28	29	171	14	25	1,2	31,60
0908 1808	8-8	36	32	28	32	180	17	30	1,4	37,60
0908 1810	10-8	38	30	33	42	201	18	31	2,5	48,10
0908 1813	13-8	61	58	44	48	288	28	42	5,5	90,60



Shackle, form C, grade 80

article no.	nominal size	nominal size acc. to DIN 82101	D1	D2	D3	D4	B	E	weight ca. kg	price per piece EUR
0902 0006	6-8	0,4	10	10	20	M10	14	29	0,10	23,40
0902 0008	8-8	0,6	13	12	24	M12	18	35	0,18	26,80
0902 0010	10-8	1,0	15	16	31	M16	23	49	0,39	27,00
0902 0013	13-8	1,6	19	20	37	M20	27	61	0,80	34,00
0902 0016	16-8	2,5	24	24	47	M24	34	73	1,40	45,25
0902 0020	18/20-8	4,0	27	30	60	M30	42	91	2,70	77,35
0902 0022	22-8	5,0	33	36	72	M36	48	112	4,30	120,00



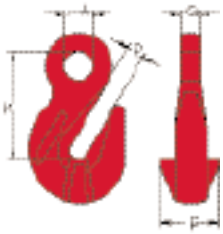


Available are suspension chains with shortening claws of up to 32 mm of nominal chain thickness – please inquire!

Hooks balance levers grade 80 DIN EN 1677

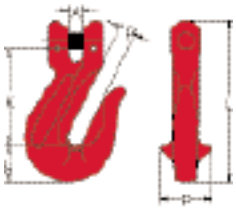
Dolezych

eye grab hook, YPO



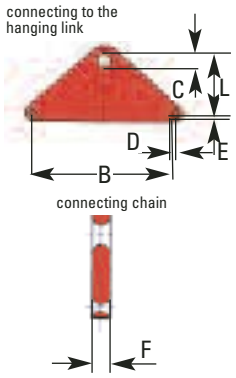
article no.	nominal size	dimensions in mm P	A	G	K	F	weight ca. kg	price per piece EUR
0907 6506	6-8	8	13	8	51	30	0,2	7,30
0907 6508	7/8-8	10	15	9	60	30	0,2	9,70
0907 6510	10-8	13	20	13	84	41	0,6	12,60
0907 6513	13-8	16	25	15	102	52	1,2	15,60
0907 6516	16-8	20	30	20	114	57	2,3	27,40

Clevis grab hook, YPG



article no.	nominal size	dimensions in mm A	P	F	K	H	L	weight ca. kg	price per piece EUR
0906 0006	6-8	7	7	25	41	16	75	0,2	8,15
0906 0008	8-8	9	10	30	55	25	93	0,3	13,50
0906 0010	10-8	12	13	41	77	35	128	0,8	18,95
0906 0013	13-8	15	16	53	97	42	152	1,5	27,60
0906 0016	16-8	17	20	58	102	45	180	2,9	41,60

Balance levers

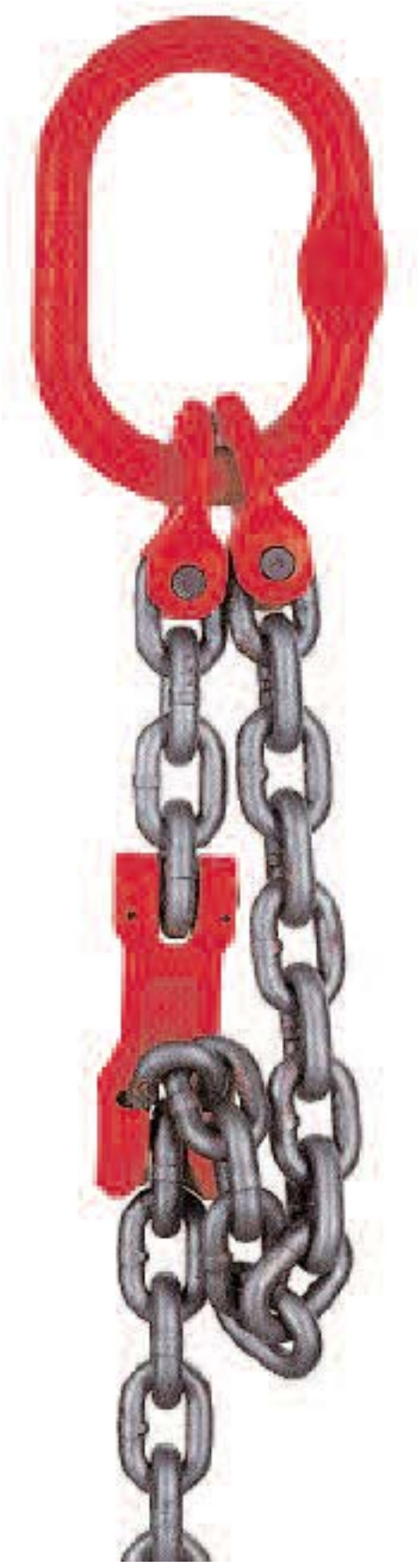


article no.	nominal size	connecting of coupling link to the chain	connecting of coupling link to hanging link	dimensions in mm L	B	E	C	D	F	weight ca. kg	price per piece EUR
0908 1906	6-8	6-8	10-8	43	105	6	16	10	10	0,4	61,10
0908 1908	8-8	8-8	13-8	58	140	12	24	16	12	1,0	69,90
0908 1910	10-8	10-8	16-8	70	165	16	26	20	15	1,4	84,40
0908 1913	13-8	13-8	18-8	96	230	18	32	26	20	3,8	137,65
0908 1916	16-8	16-8	22-8	120	290	24	40	32	25	7,6	229,60
0908 1918	18-8	18-8	22-8	122	290	28	44	36	25	8,5	a. Anfrage

In case of suspensions consisting of several chains, a balance lever influences that the individual chains are equally charged.
With the balance lever it is possible to balance minor differences, which take place in practice, in the order of points of catching / slinging , as well as in the acceptable length tolerances of individual chains. Lifting capacity reduction to two bearing chains only, as prescribed by the standard in case of asymmetrical load distribution, will be balanced thanks to the use of the balance lever. One may consider 3 chains as the bearing ones. Thus the lifting capacity gets increased.

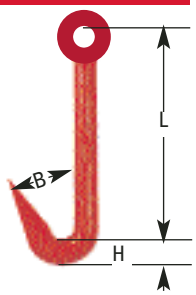
Hooks
ball bearing based swivels
forestry hooks
grade 80
DIN EN 1677

DoKett



Bale hook TMH

article no.	nominal size	L	dimensions in mm B	H	weight ca. kg	price per piece EUR
0905 1206	6-8	216	44	16	0,4	34,75
0905 1208	8-8	288	56	20	0,9	40,35
0905 1210	10-8	360	69	24	1,7	50,60

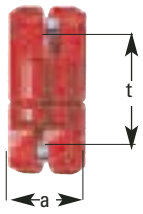


Ball bearing based swivel for chains KLW

article no.	nominal size	dimensions in mm b	c1	c2	d	i	t	weight ca. kg	price per piece EUR
0980 6108	8-8	36	30	49	17	188	154	1,2	81,00
0980 6110	10-8	38	33	51	19	204	166	1,5	99,00
0980 6113	13-8	60	60	89	28	314	258	5,0	179,00

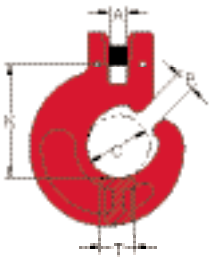
Ball bearing based swivel for chains TWG

article no.	nominal size	dimensions in mm a	Ø d	t	weight ca. kg	price per piece EUR
0980 6006	6-8	36	36	52	0,4	90,40
0980 6008	8-8	41	41	60	0,6	104,80
0980 6010	10-8	50	50	76	1,14	120,30
0980 6013	13-8	60	60	86	1,8	164,80

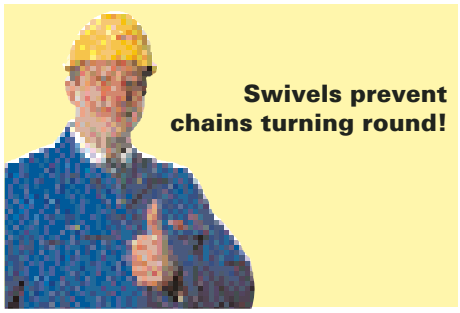


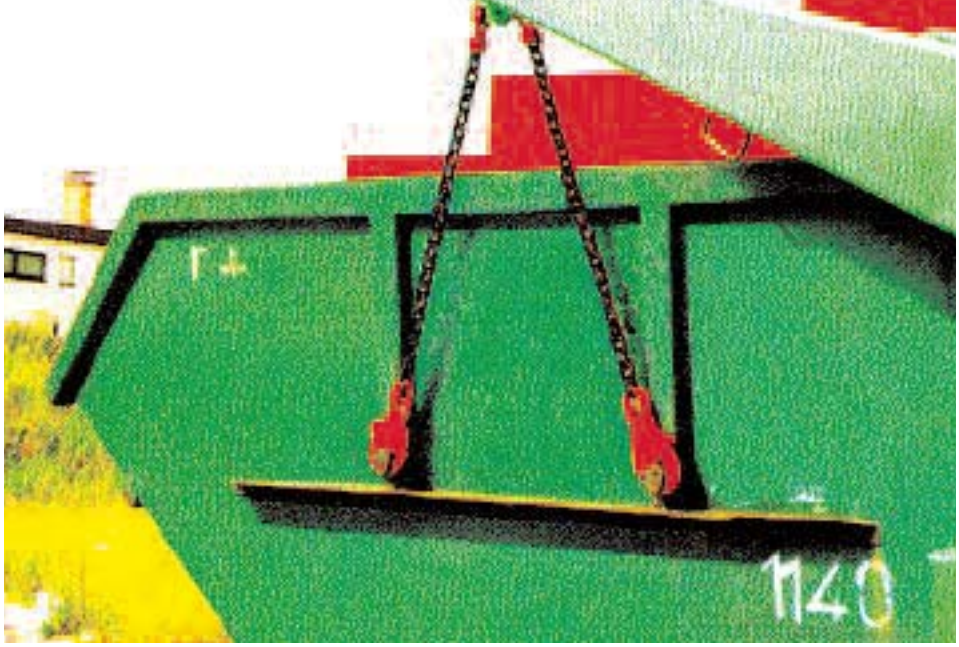
Clevis forest hook, YGV

article no.	nominal size	dimensions in mm K	P	T	A	C	weight ca. kg	price per piece EUR
0982 0106	6-8	47	8	17	8	26	0,3	9,80
0982 0108	7/8-8	58	10	18	9	32	0,4	12,30
0982 0110	10-8	82	12	21	13	45	0,8	16,30



Chains for forestry and agricultural purposes – please inquire.

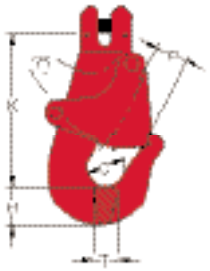




Container hooks grade 80, grade 100 DIN EN 1677

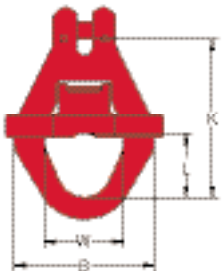
DoKett

Container links may be applied for all types of containers. The self locking system of the Clevis prevents unintended unhooking.



article no.	lifting capacity t	nominal size	dimensions in mm P	C	T	H	K	weight ca. kg	price per piece EUR
0906 1013	5,3	13	55	52	28	44	190	3,0	84,90

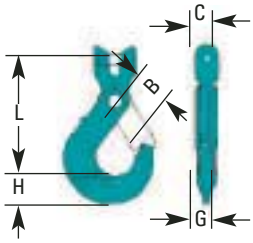
Clevis container link YGAO with a side safety flap



article no.	lifting capacity keit t	nominal size	dimensions in mm K	L	W	B	weight ca. kg	price per piece EUR
0905 5913	5,3	13	141	57	65	125	1,8	107,55

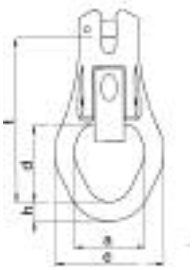
Clevis container hook SHA of special quality 8E, grade 100,self-locking

Complete sling chains for container transport with hooks SHA or Clevis container link AOS of special quality 8E (grade 10) with a lifting capacity by 25% higher than that of the grade 80 are available on request.



article no.	lifting capacity keit t	nominal size	dimensions in mm H	B	C	G	L	weight ca. kg	price per piece EUR
4906 1513	6,7	13	43	50	34	27	164	2,6	118,70
4906 1516	10,0	16	43	50	36	28	160	2,8	129,30

Clevis container link AOS of special quality 8E, grade 100

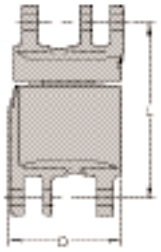


article no.	lifting capacity t	nominal size	dimensions in mm a	b	c	d	e	ht		weight ca. kg	Preis je Stück EUR
4906 1613	6,7	13	72	20	40	79	112	20	168	2,7	110,85
4906 1616	10,0	16	72	20	40	79	112	20	166	2,8	119,80

Elements which can not be mistaken grade 80 DIN EN 1677

Insulated blank swivelsYKDI with ball bearings

article no.	nominal size	dimensions in mm D	L	weight ca. kg	price per piece EUR
0980 5508	7/8-8	50	70	0,9	117,50
0980 5510	10-8	62	86	1,2	143,80
0980 5513	13-8	77	115	2,5	189,10
0980 5516	16-8	64	134	4,4	268,60
0980 5519	18/20-8	109	156	7,0	358,60



Swivels prevent torsion or rotation of suspended load!

The insulated swivel may also be used when a suspended load is being welded. Thanks to it air currents generated this way can not cause any damage to the crane ropes or to the electric installation of the crane.

Coupling master link, YAGO

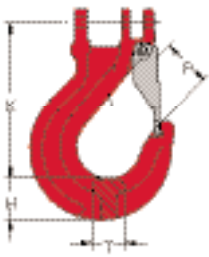
article no.	nominal size	dimensions in mm K	W	T	H	A	weight ca. kg	price per piece EUR
0980 5108	7/8-8	100	50	15	15	15	0,3	18,20
0980 5110	10-8	127	65	19	19	20	0,3	24,80
0980 5113	13-8	145	72	23	22	25	1,0	31,90
0980 5116	16-8	174	80	25	26	30	1,6	46,50
0980 5119	18/20-8	204	104	31	36	36	2,6	80,90

Closed coupling master limk, YAGS

article no.	nominal size	dimensions in mm K	W	T	H	L	weight ca. kg	price per piece EUR
0980 5208	7/8-8	100	50	15	12	78	0,3	17,35
0980 5210	10-8	127	65	19	19	101	0,3	25,30
0980 5213	13-8	145	72	23	22	113	1,1	30,80
0980 5216	16-8	174	80	25	26	137	1,7	44,60
0980 5219	18/20-8	204	104	31	36	165	2,8	77,40

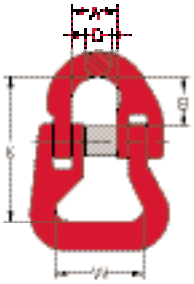
Coupling sling hook, YKHS

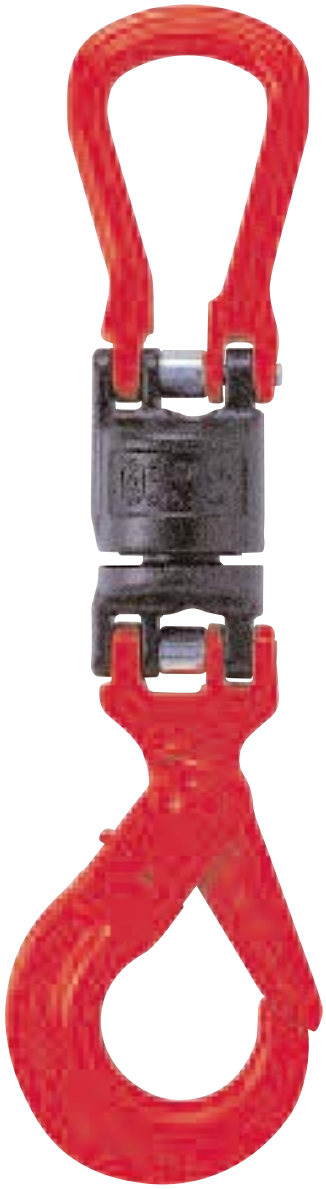
article no.	nominal size	dimensions in mm K	P	T	H	weight ca. kg	price per piece EUR
0980 5708	7/8-8	90	30	19	23	0,4	19,90
0980 5710	10-8	115	36	23	31	0,8	27,20
0980 5713	13-8	141	42	28	36	1,8	38,30
0980 5716	16-8	168	47	32	45	3,1	76,40
0980 5719	18/20-8	195	52	43	48	4,9	119,80



Web sling connector, YKKD

article no.	nominal size	dimensions in mm A	B	D	K	W	weight ca. kg	price per piece EUR
0915 1006	6-8	15	17	7	57	39	0,2	17,50
0915 1007	7/8-8	18	22	9	62	40	0,3	18,80
0915 1010	10-8	25	26	12	78	47	0,6	23,85
0915 1013	13-8	30	35	16	95	53	1,0	40,20
0915 1016	16-8	36	41	20	115	67	2,0	49,30
0915 1019	18/20-8	42	46	23	132	80	3,0	62,90
0915 1022	22-8	50	60	25	187	125	7,0	144,00
0915 1026	26-8	58	61	30	209	150	11,6	237,00
0915 1032	32-8	67	92	37	279	160	20,0	647,00





Hooks
grade 80
DIN EN 1677

DoKett

Label for marking the gade 80

Control plate for catching chains
Technical data on the label help the user to apply the chain suspension correctly.

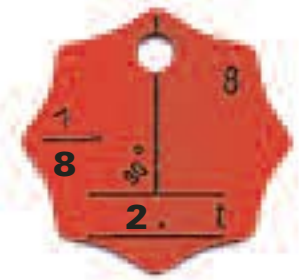
1 chain nominal thickness

2 number of suspension chains

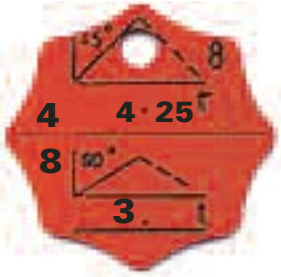
3 angle of inclination

4 lifting capacity

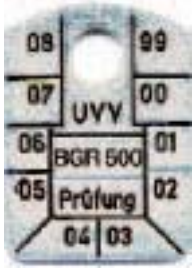
5 CE- marks



Single chain
art.-no. 0940 0121 EUR 1,50

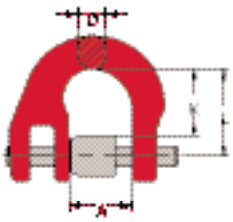


Multi-chain
art.-no. 0940 0132 EUR 1,50



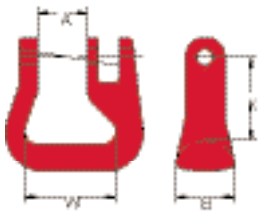
art.no. 0999 9998 EUR 1,10

Half-coupling link with connecting bolt and clamping socket, YTV



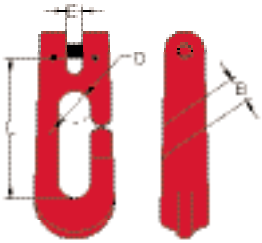
article no.	nominal size	dimensions in mm L	A	D	K	weight ca. kg	price per piece EUR
0980 5406	6-8	22	15	7	17	0,05	6,95
0980 5408	7/8-8	28	18	9	22	0,10	7,30
0980 5410	10-8	34	25	12	26	0,20	9,70
0980 5413	13-8	44	30	16	35	0,40	12,30
0980 5416	16-8	52	36	20	41	0,70	17,75
0980 5419	18/20-8	63	42	23	46	1,10	46,50
0980 5422	22-8	76	49	25	59	1,70	52,45
0980 5426	26-8	80	56	30	61	2,60	60,00
0980 5432	32-8	100	69	37	80	4,90	on request!

Round sling coupling without a partial link, YHRK



article no.	nominal size	dimensions in mm K	W	A	B	weight ca. kg	price per piece EUR
0915 0906	6-8	30	38	15	22	0,2	11,10
0915 0907	7/8-8	33	40	18	24	0,2	12,20
0915 0910	10-8	44	47	25	29	0,4	14,50
0915 0913	13-8	51	53	30	35	0,7	23,15
0915 0916	16-8	63	67	36	43	1,2	32,10
0915 0920	18/20-8	73	80	42	52	1,9	45,10
0915 0922	22-8	111	125	50	70	5,3	97,80
0915 0926	26-8	129	150	58	86	9,0	131,90
0915 0932	32-8	161	160	69	91	15,5	a. Anfrage

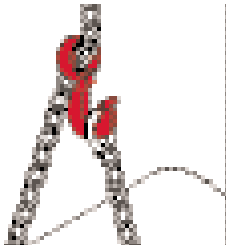
Clevis choker, YGFS



article no.	nominal size	dimensions in mm L	B	E	D	weight ca. kg	price per piece EUR
0982 0207	6/7-8	78	14	9	16	0,5	11,95
0982 0208	8-8	82	15	9	17	0,6	13,20

Twist eye choke hook, YOLH

article no.	nominal size	dimensions in mm K	C	A	weight ca. kg	price per piece EUR
0905 9907	7/8-8	95	19	32	0,4	13,50
0905 9910	10-8	116	21	41	0,8	19,95
0905 9913	13-8	150	27	50	1,9	35,20
0905 9916	16-8	185	32	67	3,0	58,80



Chains sling of special quality 8E (grade 100)

DoComfort

DoComfort – the special quality chain system

Advantages:

- At an equal nominal diameter an up to 25% higher lifting capacity than in case of the garde 80 chain system quality. Therefore: considerable saving on weight with the same lifting capacity.
- Meeting all the requirements of the European standard EN 818-4
- Smaller wear of chain links and of accessories thanks to the bigger surface hardness
- As compared with the grade 80 - more than double notched impact strength
- System which can not be mistaken, which means that only chains and chain elements of the same lifting capacity may be interconnected
- Breaking elongation of minimum 20%
- Lifting capacity at temperatures up to 200°C = 100%, from 200°C up to 300°C = 90%, from 300°C up to 400°C = 75% of nominal lifting capacity
- Quality management system according to DIN EN ISO 9001:2000 secures an equal lasting high quality standard. Beyond it – regular production supervision by control institutions from outside.

All the chain elements have:

- The official, by BG accepted stamp of the presently highest class of performance within the range of catching chains 8E
- The system colour "turquoise"

Due to safety reasons, elements of the DoComfort chain system can neither be combined with special quality products of other production, nor with fittings resp. spare parts of other quality classes. Safety is guaranteed only in case when all the chain elements are "turquoise", while the connecting bolts are of "golden" colour because these colours guarantee a subordination excluding the possibility of becoming mistaken.

Chain sling 1-leg

lifting capacity t at the angle of inclination ß 0°	chain nominal thickness mm	with hook 4944 . . 01 EUR	with hook and shortening claw 4945 . . 01 EUR	with final link 4923 . . 01 EUR	price per any add. meter EUR
Please complete the article no. with the chain's nominal thickness „ . . ". price per 1 meter of effective length					
1,40	06	59,11	87,82	60,50	9,00
2,50	08	66,61	133,10	68,85	12,00
4,00	10	79,63	148,20	82,95	15,50
6,70	13	110,65	182,80	114,50	24,35
10,00	16	164,49	296,80	141,10	30,50
12,50	18	296,00	on request	220,75	48,10
19,00	22	402,50	on request	321,10	71,80

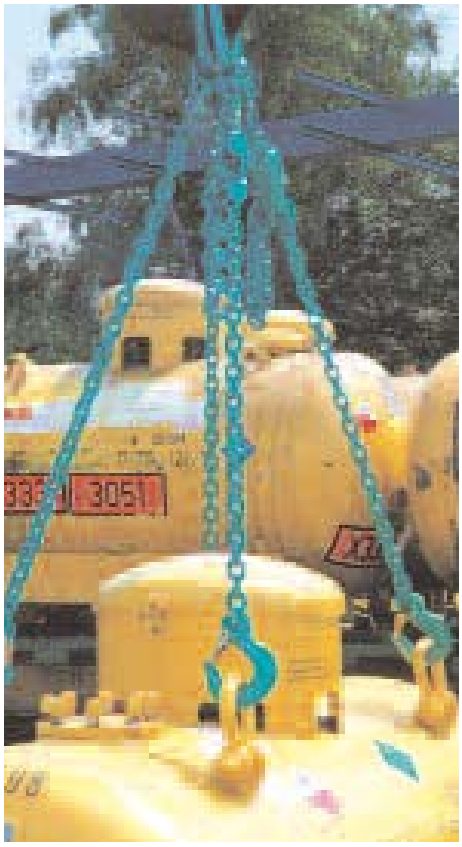
Chain sling 2-leg *

lifting capacity t at the angle of inclination ß 0-45°	ß 45-60°	chain nominal thickness mm	with hook 4944 . . 01 EUR	with hook and shortening claw 4945 . . 01 EUR	with master link 4923 . . 01 EUR	price per any add. meter EUR
Please complete the article no. with the chain's nominal thickness „ . . ". price per 1 meter of effective length						
2,00	1,40	06	102,30	159,90	105,30	18,05
3,55	2,50	08	119,70	184,45	124,10	24,00
5,60	4,00	10	146,40	242,00	152,40	31,10
9,50	6,70	13	217,50	354,15	220,50	48,70
14,00	10,00	16	304,90	563,25	258,15	61,00
18,00	12,50	18	550,20	on request	295,40	96,20
26,50	19,00	22	770,80	on request	502,20	144,50

*** at an unequal load one may base on the lifting capacity of a single chain only**

Chain slings of special quality 8E (grade 10)

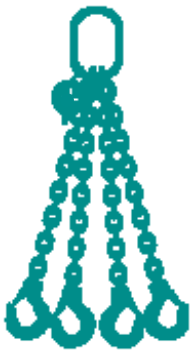
DoComfort



Chain slings 3-leg **

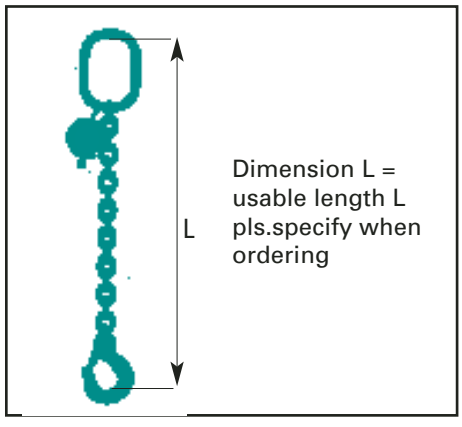
lifting capacity t at the angle of inclination		chain nominal thickness	with hook	with hook and shortening claw	with master link	
			Please complete the article no. with the chain's nominal thickness „ . . ". price per 1 meter of usable length			price per any add.
ß 0-45°	ß 45-60°	mm	4944 . . 03 **EUR**	4945 . . 03 **EUR**	4923 . . 03 **EUR**	meter **EUR**
3,00	2,12	06	179,93	266,79	184,30	27,10
5,30	3,75	08	190,45	287,62	219,25	36,00
8,00	6,00	10	270,88	414,19	280,16	46,60
14,00	10,00	13	399,10	603,90	403,75	73,05
21,20	15,00	16	500,15	888,15	430,25	91,50
26,50	19,00	18	910,05	on request	867,80	144,25
40,00	28,00	22	1174,45	on request	942,38	216,80

Chain slings 4-leg **



lifting capacity t at the angle of inclination		chain nominal thickness	with hook	with hook and shortening claw	with master link	
			Please complete the article no. with the chain's nominal thickness „ . . ". price per 1 meter of usable length			price per any add.
ß 0-45°	ß 45-60°	mm	4944 . . 04 **EUR**	4945 . . 04 **EUR**	4923 . . 04 **EUR**	meter **EUR**
3,00	2,12	06	209,80	325,05	215,65	37,15
5,30	3,75	08	241,80	371,30	250,80	48,00
8,00	6,00	10	306,60	497,80	319,30	62,15
14,00	10,00	13	453,40	726,50	459,60	97,40
21,20	15,00	16	591,90	1108,20	498,05	122,05
26,50	19,00	18	1090,50	on request	1034,70	192,35
40,00	28,00	22	1402,90	on request	1093,60	289,07

**** at an unequal load one may base on the lifting capacity of a double 2-l3egs chain sling in dependence from the biggest ß angle of inclination.**



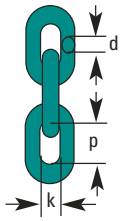
Dimension L = usable length L pls.specify when ordering

The DoComfort chain slings chains may also be delivered with other fittings, please inquire.

grade 100 lifting chain, master links type A

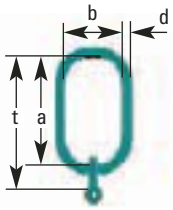
DeComfort

grade 100 lifting chain



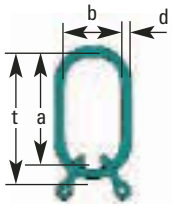
article no.	nominal thickness mm	lifting capacity t	d mm	k mm	p mm	weight ca. kg/m	price per meter EUR
4970 0006	6	1,4	6	8,0	18	0,83	9,05
4970 0008	8	2,5	8	10,8	24	1,50	12,00
4970 0010	10	4,0	10	13,5	30	2,37	15,50
4970 0013	13	6,7	13	17,5	39	3,90	24,35
4970 0016	16	10,0	16	20,8	48	5,80	30,30
4970 0018	22	12,5	18	23,4	54	7,40	48,10
4970 0022	22	19,0	22	28,6	66	11,00	72,30

Master link with Clevis coupling ring for 1-leg chain slings



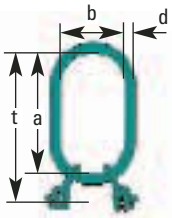
article no.	nominal thickness mm	lifting capacity t	d mm	a mm	b mm	t mm	weight ca. kg	price per meter EUR
4905 5106	A-1 6	1,4	13	110	60	138	0,4	24,60
4905 5108	A-1 8	2,5	16	110	60	147	0,7	27,85
4905 5110	A-1 10	4,0	18	135	75	183	1,1	33,80
4905 5113	A-1 13	6,7	22	160	90	220	2,2	46,00
4905 5116	A-1 16	10,0	26	180	100	257	3,4	55,55
4905 5118	A-1 18	12,5	32	200	110	287	6,0	90,80
4905 5122	A-1 22	19,0	36	260	140	364	9,5	145,20

Master link with Clevis coupling ring for 2-leg chain slings



article no.	nominal thickness mm	lifting capacity t ß 0-45°	lifting capacity t ß 45-60°	d mm	a mm	b mm	t mm	weight ca. kg	price per piece EUR
4905 5206	A-2 6	2,00	1,40	13	110	60	138	0,5	33,10
4905 5208	A-2 8	3,55	2,50	18	135	75	172	1,2	40,80
4905 5210	A-2 10	5,60	4,00	22	160	90	208	1,9	53,75
4905 5213	A-2 13	9,50	6,70	26	180	100	240	3,0	78,30
4905 5216	A-2 16	14,00	10,00	32	200	110	277	5,0	97,90
4905 5218	A-2 18	18,00	12,50	36	260	140	346	8,5	152,10
4905 5222	A-2 22	26,50	19,00	45	340	180	444	19,1	283,45

Master link with Clevis coupling ring for 3/4-legchain slings



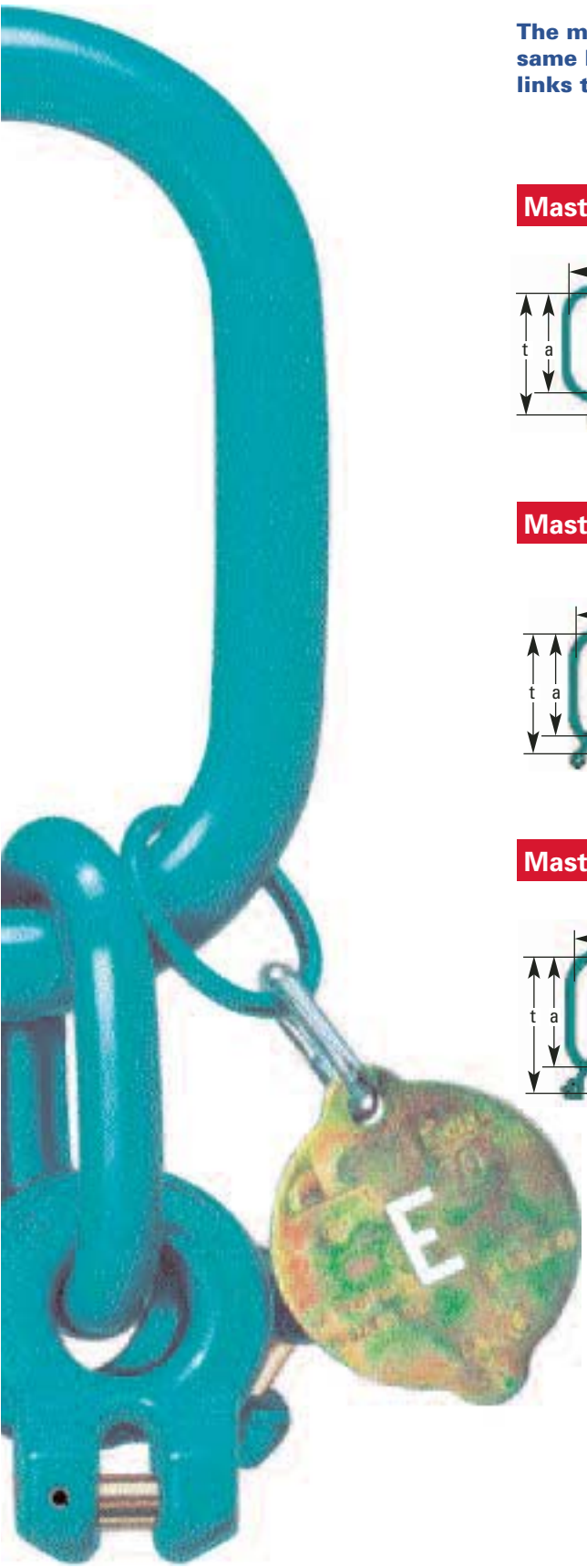
article no.	nominal size	lifting capacity t ß 0-45°	lifting capacity t ß 45-60°	d mm	a mm	b mm	t mm	weight ca. kg	price per piece EUR
4905 5406	A-4 6	3,0	2,12	18	135	75	217	1,6	72,40
4905 5408	A-4 8	5,3	3,75	22	160	90	267	3,1	91,90
4905 5410	A-4 10	8,0	6,00	26	180	100	313	4,6	124,85
4905 5413	A-4 13	14,0	10,00	32	200	110	375	8,9	206,75
4905 5416	A-4 16	21,2	15,00	36	260	140	477	14,4	211,50
4905 5418	A-4 18	26,5	19,00	45	340	180	577	27,4	353,50
4905 5422	A-4 22	40,0	28,00	50	350	190	624	38,3	492,30

Master links with bigger inner dimensions- on inquiry

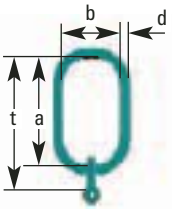
crane hook no.	8	16	25	50
inner dimensions mm	180 x 100	260 x 140	340 x 180	430 x 220

Master links type B grade 100

The master links type B have the same lifting capacities master links type A however, perform less

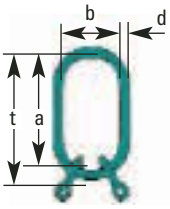


Master link with Clevis coupling ring for 1-leg chain sling



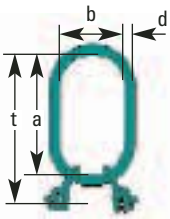
article no.	nominal thickness mm	lifting capacity t	d mm	a mm	b mm	t mm	weight ca. kg	price per meter EUR
4905 7106	6	1,4	13	54	25	84	0,43	28,40
4905 7108	8	2,5	16	70	34	111	0,73	30,60
4905 7110	10	4,0	18	85	40	135	1,00	37,10
4905 7113	13	6,7	22	115	50	178	2,00	47,00
4905 7116	16	10,0	26	140	65	217	3,60	64,20
4905 7118	18	12,5	32	150	70	240	5,98	83,60
4905 7122	22	19,0	36	170	75	274	8,00	119,20

Master link with Clevis coupling ring for 2-leg chain sling



article no.	nominal thickness mm	lifting capacity t ß 0-45°	lifting capacity t ß 45-60°	d mm	a mm	b mm	t mm	weight ca. kg	price per meter EUR
4905 7206	6	2,0	1,4	13	54	25	84	0,54	40,90
4905 7208	8	3,55	2,5	16	70	334	111	0,95	42,80
4905 7213	10	5,60	4	18	85	40	135	1,50	53,50
4905 7213	13	9,50	6,7	22	115	50	178	2,70	67,90
4905 7216	16	14,0	10	26	140	65	217	5,70	84,40
4905 7218	18	18,0	12,5	32	150	70	240	7,40	118,90
4905 7222	22	26,5	19	36	170	75	274	10,30	182,50

Master link with Clevis coupling ring for 3/4-leg chain sling

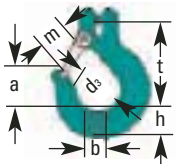


article no.	nominal thickness mm	lifting capacity t ß 0-45°	lifting capacity t ß 45-60°	d mm	a mm	b mm	t mm	weight ca. kg	price per meter EUR
49057306	6	3,0	2,12	16	70	34	154	1,23	83,40
49057308	8	5,3	3,75	18	85	40	196	2,17	92,20
49057310	10	8,0	6	22	115	50	250	3,90	119,10
49057313	13	14,0	10	26	140	65	318	7,30	154,10
49057316	16	21,2	15	32	150	70	367	12,60	218,40
49057318	18	26,5	19	36	170	75	410	19,40	272,00
49057322	22	40,0	28	40	170	80	444	26,10	414,00

Accessories of special quality 8E (grade 100)

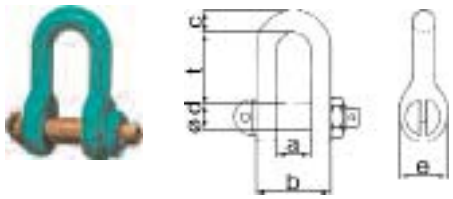
DoComfort

GH Clevis sling hook



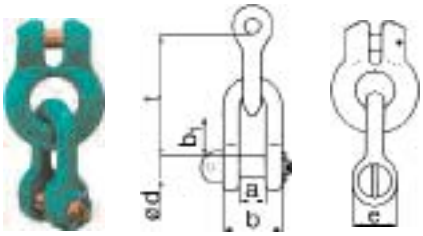
article no.	nominal size	lifting capacity t	a mm	b mm	d3 mm	h mm	m mm	t mm	weight ca. kg	price per piece EUR
4907 6106	6	1,4	32	16	34	21	22	67	0,4	22,80
4907 6108	8	2,5	44	20	48	26	30	90	0,7	25,10
4907 6110	10	4,0	52	26	56	35	37	112	1,6	29,70
4907 6113	13	6,7	66	32	70	46	47	140	2,3	44,00
4907 6116	16	10,0	62	37	74	49	51	152	4,3	75,90
4907 6118	18	12,5	70	43	72	56	54	172	6,9	161,00
4907 6122	22	10,0	95	48	92	69	68	210	10,7	223,60

Connecting shackle VS



article no.	nominal size	lifting capacity t	a mm	b mm	c mm	d mm	e mm	t mm	weight ca. kg	price per piece EUR
4902 0010	10	4,0	23	49	15	16	31	49	0,42	28,10
4902 0013	13	6,7	27	61	19	20	37	61	0,8	36,10
4902 0016	16	10,0	34	76	24	24	47	73	1,4	48,80
4902 0018	18	12,5	40	88	27	27	56	84	2,2	70,10
4902 0022	22	19,0	48	108	33	36	72	112	3,3	115,00

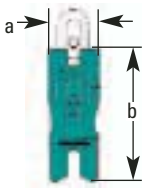
Clevis connector with shackle GVS



article	nominal size	lifting capacity t	a mm	b mm	b1 mm	d mm	e mm	t mm	weight ca. kg	price per piece EUR
4902 0310	10	4,0	23	49	30	16	31	100	0,8	53,40
4902 0313	13	6,7	27	61	40	20	37	124	1,5	67,70
4902 0316	16	10,0	34	76	43	24	47	151	3,0	89,80
4902 0318	18	12,5	40	88	58	27	56	173	4,5	122,50

Double shortening claw VD / VKE

* with locking-new design
** for direct fitting at the master link

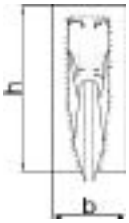


article no.	nominal size	lifting capacity t	a mm	b mm	weight ca. kg	price per piece EUR
4905 1806	VD 6	1,4	35	93	0,3	36,30
4905 1808 *	VD 8	2,5	47	110	0,6	69,40
4905 1810 *	VD 10	4,0	59	138	1,3	73,00
4905 1813 *	VD 13	6,7	73	182	2,5	86,00
4905 1816 *	VD 16	10,0	94	230	5,1	152,00
4905 1818 **	VKE 18	12,5	101	134	4,1	128,00
4905 1822 **	VKE 22	19,0	126	160	7,3	154,10

Accessories of special quality 8E grade 100

DoComfort

Hook for welding on, AHK

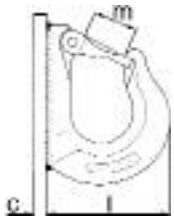


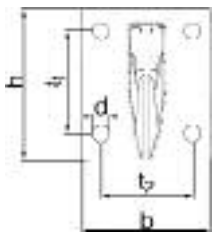
article no.	nominal size	lifting capacity t	a mm	b mm	c mm	h mm	l mm	t mm	weight ca. kg	price per piece EUR
4957 0015	6	1,4	5	40	10	90	66	22	0,7	40,50
4957 0026	8	2,5	5	50	10	115	85	29	1,5	43,60
4957 0041	10	4,0	8	60	15	140	110	36	1,8	58,50
4957 0068	13	6,7	8	70	15	175	135	45	3,2	78,20
4957 0101	16	10,0	8	80	15	210	140	50	5,1	109,90

Please observe welding regulations!

Screwable hook GVS

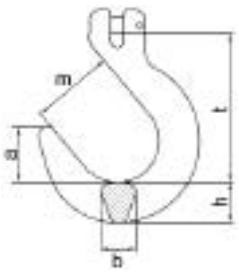
article no.	nominal size	lifting capacity t	b mm	c mm	d mm	h mm	l mm	m mm	t1	t2	s	weight ca. kg	price per piece EUR
4957 0014	6	1,4	100	10	13	100	66	22	60	70	M 12	1,1	47,00
4957 0025	8	2,5	110	10	13	135	85	29	75	80	M 12	1,9	50,70
4957 0040	10	4,0	130	12	17	155	110	36	100	95	M 16	3,2	67,90
4957 0067	13	6,7	160	15	22	185	135	45	120	110	M 20	5,7	90,80
4957 0100	16	10,0	180	15	26	220	140	50	150	120	M 24	8,4	127,50





Without screws. Please note: screws at least of 8.8 quality

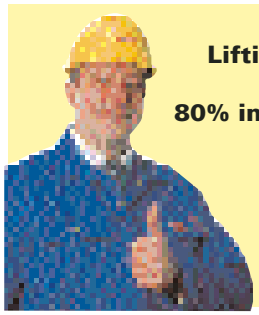
Wide throat hook WHG



article no.	nominal size	lifting capacity t	a mm	b mm	h mm	m mm	t mm	weight ca. kg	price per piece EUR
4905 4613	13	6,7	60	38	44	90	162	3,4	61,80
4905 4616	16	10,0	67	47	51	102	190	5,5	98,00
4905 4618	18	12,5	77	53	54	114	218	7,9	124,20
4905 4622	22	19,0	90	56	60	124	238	12,8	203,70

Sling chains
Hook chains
Circular chains
Running slings
grade 80

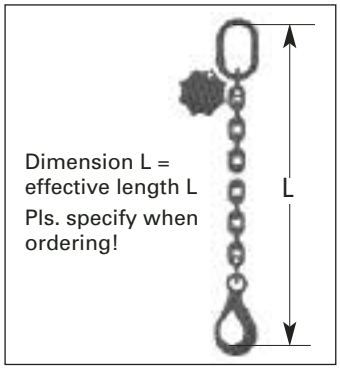
DoKett



Lifting capacity is reduced to 80% in choker mode

Dimension L = effective length L

Pls. specify when ordering!



article no.	nominal chain thickness mm	lifting capacity t direct	lifting capacity t choker	price per 1 meter EUR	price per any add. meter EUR
1912 0701	7	5,0	2,5		
1912 0801	8	6,4	3,2		
1912 1001	10	10,0	5,0		
1912 1301	13	17,0	8,5		
1912 1601	16	25,0	12,5		
1912 1901	19	36,0	18,0		

Please inqire!

At hanging mode with chains in one hanging hook, the load does not suspend stable; it may slip out. In case of long goods apply DoLast traverses!

Chain, at both ends with Clevis hook

article no.	nominal chai thickness mm	lifting capacity	price per 1 meter EUR	price per any add. meter EUR
1949 0601	6	1,12	51,03	8,00
1949 0701	7	1,50	58,95	8,30
1949 0801	8	2,00	59,77	9,10
1949 1001	10	3,15	75,01	11,50
1949 1301	13	5,30	107,32	20,00
1949 1601	16	8,00	158,55	25,20

Circular chain, regular

article no.	nominal chai thickness mm	lifting capacity ß 0-45°	lifting capacity ß 45-60°	price per 1 meter EUR	price per any add. meter EUR
1908 0702	7	1,70	1,20	47,70	16,60
1908 0802	8	2,24	1,60	57,10	18,20
1908 1002	10	3,35	2,50	66,50	23,00
1908 1302	13	5,83	4,25	96,70	40,00
1908 1602	16	9,00	6,30	149,00	50,40
1908 1902	19	12,80	8,90	233,00	87,20

Circular chain, double

article no.	nominal chain thickness mm	lifting capacity ß 0-45°	lifting capacity ß 45-60°	price per 1 meter EUR	price per any add. meter EUR
1908 0704	7	2,65	1,80	92,10	33,20
1908 0804	8	3,35	2,36	113,20	36,40
1908 1004	10	5,30	3,75	134,00	46,00
1908 1304	13	9,00	6,30	199,80	80,00
1908 1604	16	13,20	9,50	315,00	100,80
1908 1904	19	19,00	13,40	480,00	174,40

Circular chain, regular, with shortening hook

article no.	nominal chain thickness mm	lifting capacity ß 0-45°	lifting capacity ß 45-60°	price per 1 meter EUR	price per any add. meter EUR
1909 0702	7	1,70	1,20	67,30	16,60
1909 0802	8	2,24	1,60	81,30	18,20
1909 1002	10	3,35	2,50	94,40	23,00
1909 1302	13	5,60	4,25	139,30	40,00
1909 1602	16	9,00	6,30	235,00	50,40
1909 1902	19	12,80	8,90	322,00	87,20

Circular chain, double, with shortening hook

article no.	nominal chain thickness mm	lifting capacity ß 0-45°	lifting capacity ß 45-60°	price per 1 meter EUR	price per any add. meter EUR
1909 0704	7	2,65	1,80	131,10	33,20
1909 0804	8	3,35	2,36	160,40	36,40
1909 1004	10	5,30	3,75	189,70	46,00
1909 1304	13	9,00	6,30	285,30	80,00
1909 1604	16	13,20	9,50	447,00	100,80
1909 1904	19	19,00	13,40	663,00	174,40

Running sling, regular

article no.	nominal chain thickness mm	lifting capacity	price per 1 meter EUR	price per any add. meter EUR
1907 0701	7	1,20	51,20	8,00
1907 0801	8	1,60	59,60	8,30
1907 1001	10	2,52	67,90	11,50
1907 1301	13	4,25	101,00	20,00
1907 1601	16	6,30	168,00	25,20

Running sling, double

article no.	nominal chain thickness mm	lifting capacity ß 0-45°	lifting capacity ß 45-60°	price per 1 meter EUR	price per any add. meter EUR
1907 0702	7	1,70	1,20	92,50	16,60
1907 0802	8	2,24	1,60	115,50	18,20
1907 1002	10	3,35	2,50	138,60	23,00
1907 1302	13	5,60	4,25	198,30	40,00
1907 1602	16	9,00	6,30	333,40	50,40

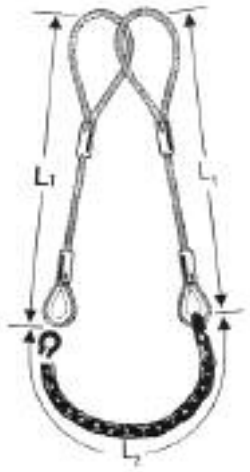
Steel wire rope and chain combinations

DeKett

Steel wire rope and chain combinations are combining in one means of catching the relevant advantages of sling chains and those of steel wire ropes: the sturdy chain is being slung around the load , the steel wire rope can be easily pulled under the load. This means: optimum handling at minimum wearing!

Rope-chain-rope combination

article no.	rope ø in mm	nominal chain thickness in mm	lifting capacity t (per pair) 2 x slung round	basic price per 1 rope + chain meter EUR	price per any add. chain meter EUR	1 rope meter EUR
0292 0801	8	6	2,80	41,65	8,00	2,55
0292 1201	12	7	6,00	49,60	8,30	5,30
0292 1401	14	8	8,00	53,80	9,10	6,70
0292 1601	16	10	10,80	62,40	11,50	8,00
0292 2001	20	13	16,00	92,30	20,00	11,20
0292 2401	22	13	20,00	100,50	20,00	15,40
0292 2601	26	16	28,00	152,20	25,20	18,10

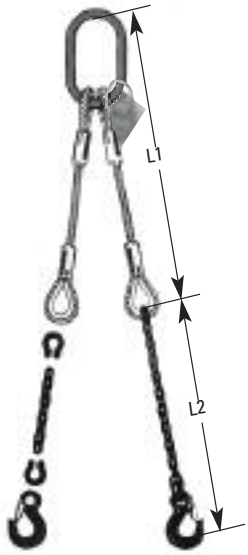


When ordering, please specify the L1+L2 dimensions!

The steel wire rope-chain combinations are ideal for lifting and for transport of loads with sharp edges. They are excellent for application under rough conditions in different industry branches. Please apply in pairs. This version may be supplied in a thimble with a self closing swivel hook added; this means that this hook may be disconnected of the chain connector or attached to it (pls. see the attached image). Please inquire.

Rope-chain-suspension, 2-legs ONK eye sling hook

article no.	rope ø in mm	nominal chain thickness in mm	eye hook throat width mm	lifting capacity t ß 0-45°	lifting capacity t ß 45-60°	basic price per 1rope + chain m EUR	price 1 m per any add. chain m EUR	1 rope meter EUR
0291 0802	8	6	24	0,95	0,70	90,10	16,00	2,55
0291 1202	12	7	30	2,10	1,50	107,10	16,60	5,30
0291 1402	14	8	30	2,80	2,00	115,40	18,20	6,70
0291 1602	16	10	36	3,80	2,70	135,70	23,00	8,00
0291 2002	20	13	43	5,60	4,00	211,00	40,00	11,20
0291 2402	22	13	43	7,00	5,00	239,80	40,00	15,40
0291 2602	26	16	47	9,80	7,00	407,30	50,40	18,10



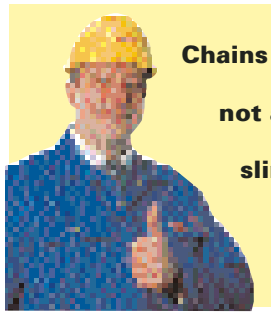
When ordering, please specify the L1+L2 dimensions !

The rope-chain suspensions prove excellent when applied under hardest conditions, not only in the building and construction industry. The chain is being slung e.g. around steel profiles and the chain is hung back on the chain (choker mode). The rope-chain suspensions are delivered also in 1, 3 and 4 rope-chain versions. Please inquire.

Knot chains and round steel bar chains DIN 5685 Separating chains

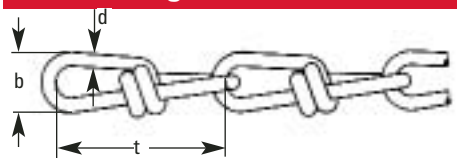
DoKett

Chains made to DIN 5685 have not been checked for their strength and therefore are not allowed to be applied as load catching chains, as means of catching or lifting. The speci-fied breaking forces are only calculated figures. They are applied e.g. as separating chains.



Chains presented on this page are not allowed to be used as slinging chains!

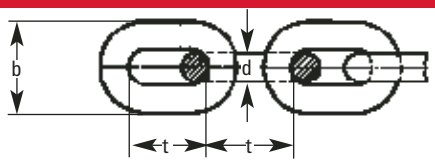
Knot chains, DIN 5686, galvanized, standard length of 30 m



article no.	nominal size mm	nominal thickness d mm	t	b mm	weight kg/ 100 m	price per 100 m EUR
3903 1001	K10	1,0	14	4,5	2,0	on request
3903 1201	K12	1,2	17	5,5	3,0	
3903 1401	K14	1,4	20	6,5	4,0	
3903 1601	K16	1,6	23	7,0	5,0	54,95
3903 1801	K20	1,8	25	8,0	7,0	58,40
3903 2001	K22	2,0	28	9,0	8,0	60,15
3903 2201	K25	2,2	31	10,0	10,0	66,30
3903 2501	K27	2,5	35	11,0	14,0	74,50
3903 2801	K30	2,8	39	12,5	16,0	89,70
3903 3101	K32	3,1	41	14,0	20,0	101,40
3903 3401	K35	3,4	44	15,0	25,0	130,00
3903 3801	K40	3,8	46	17,0	32,0	150,00
3903 4201	K45	4,2	50	19,0	40,0	192,50
3903 4601	K50	4,6	55	20,5	46,0	229,00
3903 5001	K55	5,0	60	22,5	53,0	262,00
3903 6001	K60	5,5	66	24,5	65,0	319,50

The knot chains are available also bare (last figure of article no. is "0") or of alloy steel (last figure of article no. is "4"). Please inquire about the price.

Round steel bar chains, meter ware, galvanized, DIN 5685, standard length of 30 m



article no. galvanized	nominal thickness d mm	t mm	b mm	breaking force daN	weight kg/ 100 m	former common trade denotation link	price per 100 m EUR
3900 0202	2,0	12	8	125	7,0	A short	118,50
3900 0203	2,0	22	8	125	6,0	C long	111,80
3900 0252	2,5	14	10	200	11,0	A short	168,00
3900 0253	2,5	24	10	200	10,0	C long	128,00
3900 0302	3,0	16	12	280	16,5	A short	171,10
3900 0303	3,0	26	12	280	15,0	C long	132,80
3900 0352	3,5	18	14	385	22,5	A short	198,40
3900 0353	3,5	28	14	385	20,0	C long	157,10
3900 0402	4,0	19	16	500	30,0	A short	209,20
3900 0403	4,0	32	16	500	27,0	C long	174,70
3900 0452	4,5	20	18	630	39,5	A short	269,00
3900 0453	4,5	34	18	630	35,0	C long	228,00
3900 0502	5,0	21	20	775	50,0	A short	286,40
3900 0503	5,0	35	20	775	43,0	C long	230,30
3900 0602	6,0	24	24	1150	73,0	A short	362,80
3900 0603	6,0	42	24	1150	63,0	C long	293,10
3900 0702	7,0	28	28	1500	100,0	A short	457,00
3900 0703	7,0	49	28	1500	86,0	C long	383,50
3900 0802	8,0	32	32	2000	130,0	A short	538,50
3900 0803	8,0	52	32	2000	110,0	C long	457,00
3900 1002	10,0	40	40	3100	205,0	A short	893,00
3900 1003	10,0	65	40	3100	175,0	C long	745,00
3900 1302	13,0	52	52	5300	345,0	A short	1423,00
3900 1303	13,0	82	52	5300	295,0	C long	1180,00

Separating chains of plastic, long links

nominal thickness:	6 mm
internal link length:	ca. 40 mm
external link width:	ca. 22 mm
colour:	double coloured red/white changing every 8 links
standard length:	30 + 50 m
weight per 100 m:	ca. 5 kg
article no..:	3900 7116
price per 100 m:	**EUR** 77,20

Emergency link of plastic, available in white or red colour

article no.: 09088160
price per 100 piece **EUR** 130,00

Emergency link of plastic, available in white or red colour

article no.: 0908 8260
price per 100 piece: **EUR** 33,40

Shackle of plastic (red only)

article no.: 0908 8360
price per 100 piece: **EUR**

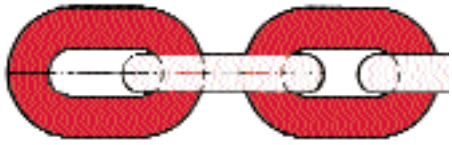
Chain fast lock of plastic, white or red

article no.: 0908 8460
price per piece: **EUR** 1,95

Separating chains of galvanized steel, plastic coated

Every 0,50 m by turns: red and white. Standard length 10 m . Every 50 cm connected with an emergency link. By means of these links, the length of each chain may be extended.

nominal thickness:	5 mm
internal link length, ca.:	36 mm
external link width:	20 mm
weight per 100 m:	ca. 44 kg
article no.:	3900 0505
price per 100 m:	**EUR** 494,00
nominal thickness:	6 mm
internal link length, ca.:	42 mm
external link width:	24 mm
weight per 100 m:	ca. 64 kg
article no.:	3900 0605
price per 100 m:	**EUR** 635,00



Emergency link for separating chains (steel)

5 mm
article no.: 0908 8155
price /100 piece: **EUR** 22,00
6 mm
article no.: 0908 8156
price /100 piece: **EUR** 30,00

Alloy steel chains

Chain slings for lifting and transporting in alloy steel – please inquire ! Chains to DIN 766 and 763, bare and galvanized – available against inquiry!

Short link chains to DIN 766 (edition 7/54), material no. 1.4401

article no.	nominal thickness d mm	t mm	b mm	lifting capacity t	breaking force kN	weight kg/m	price per 100 m EUR
3905 5020*	2,0	12,0	8	-	1,25	0,07	550,00
3905 5030*	3,0	16,0	11	-	2,80	0,16	749,00
3905 5040	4,0	16,0	14	0,150	6,00	0,32	860,00
3905 5050	5,0	18,5	17	0,250	10,00	0,50	1150,00
3905 5060	6,0	18,5	20	0,350	14,00	0,75	1710,00
3905 5070	7,0	22,0	23	0,450	18,00	1,00	2340,00
3905 5080	8,0	24,0	26	0,630	25,00	1,35	2920,00
3905 5100	10,0	28,0	34	1,000	40,00	2,25	4480,00

* 2 + 3 mm according to DIN 5685-A are available on request also in material no.1.4571.

Long link chains to DIN 763 (edition 9/76), material no. 1.4401

article no.	nominal thickness d mm	t mm	b mm	lifting capacity t	breaking force kN	weight kg/m	price per 100 m EUR
3906 5020*	2	22	8	-	1,25	0,06	450,00
3906 5030*	3	26	12	-	2,80	0,15	615,00
3906 5040	4	32	16	0,100	6,00	0,27	720,00
3906 5050	5	35	20	0,160	10,00	0,43	910,00
3906 5060	6	42	24	0,225	14,00	0,63	1245,00
3906 5070	7	49	28	0,300	18,00	0,86	1620,00
3906 5080	8	52	32	0,400	25,00	1,10	2099,00
3906 5100	10	65	40	0,625	40,00	1,75	3140,00

* 2 + 3 mm according to DIN 5685-C are available on request also in material no.1.4571.

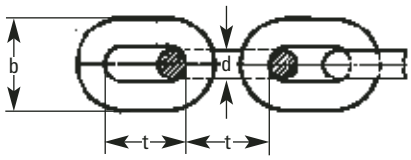
Resistance table for round stainless steel bar chains

aggressive means	concentration	temperature °C	1.4301 V2 AS*	1.4541 V2 AE*	1.4401 V4 AS*	1.4571 V4 AE*
sea water		boiling	1	1	0	0
nitric acid	1-90%	-	0	0	0	0
HNO3	1-50%	boiling	0	0	0	0
	50-90%	boiling	2-3	2-3	2-3	2-3
salt acid	0,2-0,5%	-	1	1	1	1
HCl	dto.	50°	2	2	2	2
	1-2%	-	2-3	2-3	2-3	2-3
	dto.	50°	2-3	2-3	2-3	2-3
fluorine	1-50%	-	1	1	1	1
H2SO4	dto.	70°	1-2	1-2	1-2	1-2
	dto.	boiling	2-3	2-3	2-3	2-3
Fluor	10%	-	1-2	1-2	1-2	1-2
	40%	-	2-3	2-3	2-3	2-3
hydroxide (alkali)	20%	-	0	0	0	0
	dto.	boiling	1	1	1	1
sulfate	-	-	0	0	0	0
	-	ca. 400°	1-2	1-2	1-2	1-2
chloride	-	-	1	1	1	1
fatty acid, C18H34O2 -	1500	0	0	0	0	
acetic acid, C2H4O2	-	-	0	0	0	0
gallic acid, C6H2 (OH)3CO2H	-	-	0	0	0	0

* 0 = completely resistant, 1 = practically resistant, 2 = limited resistant, 3 = theoretically not resistant. These data are indicative. Please inquire about details.

Standard analysis: in %

material no.	DIN EN denomination	C	Si	Mn	Cr	Mo	Ni	Sonstiges
1.4301	x5CrNi18-10	>= 0,07	>= 1,00	>= 2,00	18,0	-	10,0	-
1.4541	x6CrNiTi18-10	>= 0,08	>= 1,00	>= 2,00	18,0	-	10,0	Ti
1.4401	x5CrNiMo17-12-2	>= 0,07	>= 1,00	>= 2,00	17,5	2,25	12,0	-
1.4571	x6CrNiMoTi17-12-2	>= 0,08	>= 1,00	>= 2,00	17,5	2,25	11,5	Ti



These stainless round steel bar chains are corrosion resistant and have high strength properties, which make them suitable for specific applications, particularly in

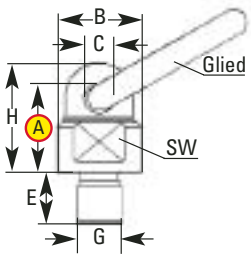
- alimentary products processing plants
- sea water
- saline solutions
- waste water
- lyes
- acids
- medical and veterinary medical branches of the chemical industry
- standard lengths of 30 and 50 m

Lifting points for transport and assembly quality grade 80 and grade 100

DoKett

Ring bolt DIN 580 and ring nuts DIN 582 may be charged vertically only! When pulling skew, select on these two pages strong lifting point.

The thread on the load must be meeting the lifting capacity of the lifting point resp. the one of the ring bolt.



CLifting point 0950

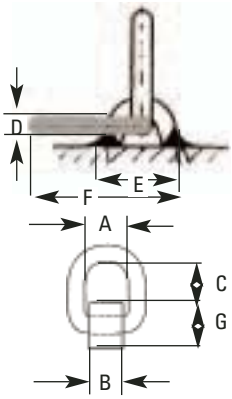
For screwing, quality grade 80, compact, light structure, with ball bearing, may be charged on all sides, turning 360°, link's rotation radius max.180°. Special sizes and special windings – please inquire.

Lifting oint DoComfort

Material of special quality;25% higher lifting capacity as compared with catching swivels of grade 80 quality, system colour: "turquoise", available in lifting capacities of 1,4; 2,5; 4,0 and 6,7 t.

article no.	lifting capacity t	ø	oval link mm	dimensions in mm B	C	G	E	H	SW	A	weight kg	price per piece EUR
0950 0050	0,50	13	55 x 30	36	14	M 12	18	51	30	40	0,30	43,75
0950 0125	1,12	13	55 x 30	36	14	M 16	20	51	30	40	0,30	45,80
4950 0140	1,40	13	55 x 30	36	14	M 16	20	54	30	43	0,30	49,50
0950 0200	2,00	16	70 x 34	49	18	M 20	30	68	41	56	1,05	47,60
4950 0250	2,50	16	70 x 34	52	18	M 20	30	70	41	58	1,05	56,10
0950 0300	3,15	18	85 x 40	57	20	M 24	30	75	46	61	1,40	71,40
4950 0400	4,00	16	85 x 40	57	20	M 24	30	78	46	64	1,40	77,20
0950 0500	5,30	20	85 x 40	66	24	M 30	35	98	55	83	2,20	73,40
4950 0670	6,70	20	85 x 40	70	24	M 30	35	98	55	83	2,20	85,50
0950 0800	8,00	22	115 x 50	80	27	M 30	35	109	65	88	3,50	107,10
0950 1000	10,00	22	115 x 50	80	27	M 36	50	109	65	88	3,70	111,90
0950 1500	15,00	26	140 x 65	104	32	M 45	60	135	80	110	6,80	323,10
0950 2000	21,20	36	170 x 75	129	45	M 64	110	190	105	150	14,20	bitte anfragen
0950 2500	25,00	36	170 x 75	129	45	M 80	150	190	105	150	14,80	
0950 3000	31,50	40	170 x 80	148	50	M 90	150	218	115	172	22,50	

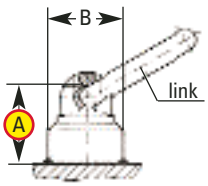
Ring bolt 0951* Quality grade 80, weld-on type



Available also in special execution with a spring (which keeps the yoke in vertical position), please inquire.

article no.	lifting capacity t	A	B	C	D	E	F	G	weight kg	price per piece EUR
0951 1000	1,12	40	36	38,5	13	38	88,5	28,5	0,35	17,60
0951 3000	3,15	45	43	48,5	17	42	106,5	34,5	0,65	21,10
0951 5000	5,30	55	50	57	22	60	138	44,0	1,50	23,40
0951 8000	8,00	70	65	67	26	70	162	51,0	2,40	37,20
0951 1500	15,00	97	90	93,5	34	90	216	65,5	6,40	93,30

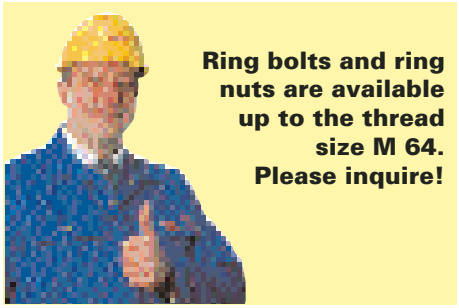
Ring bolt 0953* Quality class B, weld-on type



article no.	lifting capacity t	oval link mm	A	dimensions in mm A		weight kg	price per piece EUR
0953 2000	2,00	16 x	70 x 34	55	49	0,95	57,20
0953 3000	3,15	18 x	85 x 40	58	57	1,33	64,30
0953 8000	8,00	22 x	115 x 50	81	80	3,10	94,80
0953 1500	15,00	26 x	140 x 65	102	104	6,05	282,60

*** Please observe resp. apply for welding regulations**

Take into consideration the small dimensions A of lifting points. (A)



Ring bolts and ring nuts are available up to the thread size M 64. Please inquire!

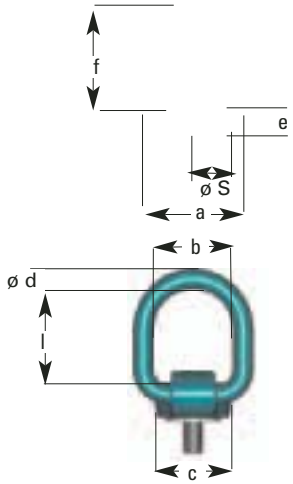
Ring bold grade 100

ring bolts and ring nuts quality grade 80

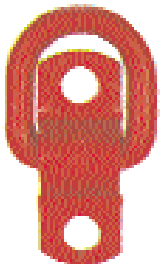
Dolett

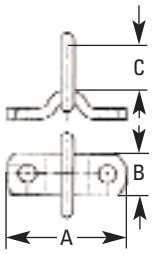
Dolomfort ring bolt of extra flat dimensions, which can be screwed in and fixed (grade 10)

article no.	lifting capacity t	thread	dimensions in mm a	b	c	d	e	f	l	S	weight kg	price per piece EUR
4959 0005	0,50	M 10x40	72	50	48	13	25	85	60	35	0,70	44,70
4959 0008	0,80	M 12x45	72	50	48	13	25	85	60	35	0,71	45,30
4959 9915	1,50	M 16x55	72	50	48	13	25	85	60	35	0,72	46,20
4959 0025	2,50	M 20x70	72	50	48	13	25	85	60	35	0,73	56,20



Ring catch 0952, quality class 8 for screwing in



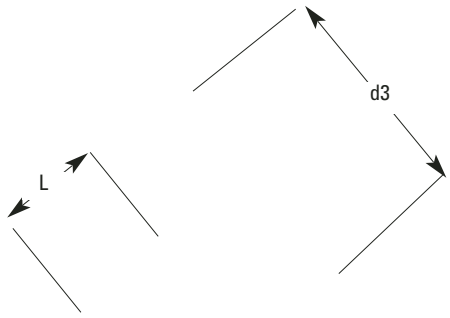


article no.	hexagon bolt	lifting capacity t	weight kg	dimensions in mm A	B	C	price per piece EUR
0952 3000	M20	3,15	1,15	130	50	53	19,75
0952 5000	M24	5,30	2,00	160	60	63	27,00
0952 8000	M27	8,00	3,80	190	70	68	41,85

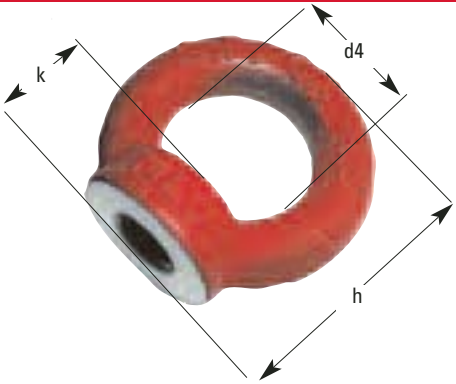
Delivery without the hexagon bolts. (minimum quality of a hexagon bolt is 8.8)

Ring bolts

article no.	lifting capacity in t at a vertically hanging load	lifting capacity in t at a load under 90°	thread	d3	dimensions in mm L	price per piece EUR
09570006	0,4	0,10	M 6	36	13,0	11,05
09570008	0,8	0,20	M 8	36	13,0	11,65
09570010	1,0	0,25	M 10	45	17,0	13,45
09570012	1,6	0,40	M 12	54	20,5	19,00
09570016	4,0	1,00	M 16	63	27,0	20,50
09570020	6,0	1,50	M 20	72	30,0	29,25
09570024	8,0	2,00	M 24	90	36,0	39,15
09570030	12,0	3,00	M 30	108	45,0	69,90
09570036	16,0	4,00	M 36	126	54,0	124,00
09570042	24,0	6,00	M 42	144	65,0	225,00
09570048	32,0	8,00	M 48	166	70,0	Pls. request

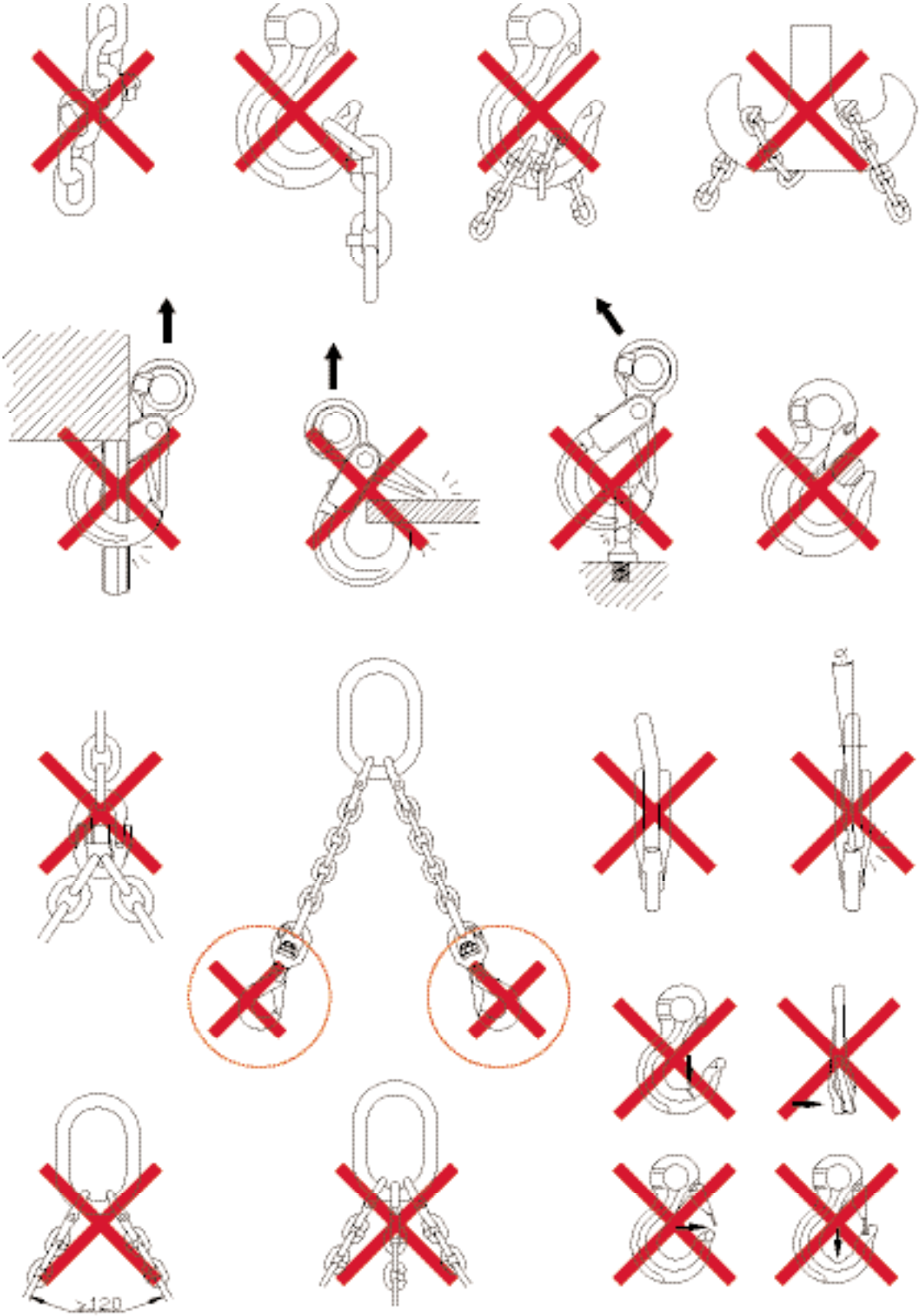


article no.	lifting capacity in t at a vertically hanging load	lifting capacity in t at a load under 90°	thread	dimensions in mm d4	h	k	price per piece EUR
09907206	0,4	0,10	M 6	20	36	8	9,60
09907208	0,8	0,20	M 8	20	36	8	10,75
09907210	1,0	0,25	M 10	25	45	10	13,45
09907212	1,6	0,40	M 12	30	53	12	16,50
09907216	4,0	1,00	M 16	35	62	14	17,85
09907220	6,0	1,50	M 20	40	71	16	27,30
09907224	8,0	2,00	M 24	50	90	20	34,40
09907230	12,0	3,00	M 30	60	109	24	64,10
09907236	16,0	4,00	M 36	70	128	28	116,20
09907242	24,0	6,00	M 42	90	144	35	154,00
09907248	32,0	8,00	M 48	90	166	35	183,80



Avoid mistakes- incorrect use !

During the application of chain slings, please observe the servicing instruction as on pages 230 -233.



Lifting gear

Grabs
Clamps
Traverses
Chain stretchers
Lifting & pulling machines
Hoisting winches
Magnets

Lifting gear

DoLast

...the comprehensive program of loading equipment, lifting gear and cranes

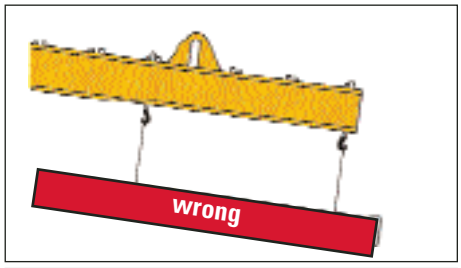
Traverses

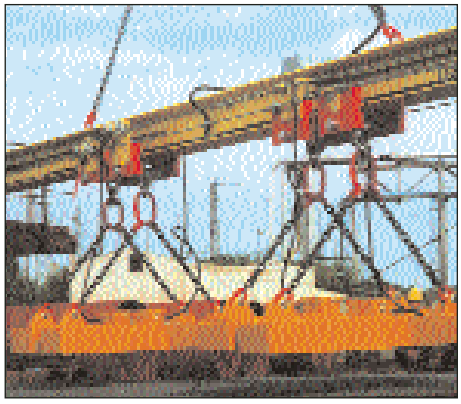
Regulations in force with respect to loading equipment are BGR 500 and DIN 15428.
As means of loading, traverses which may be hung in a crane hook or may be applied as means of lifting of traverse cranes, are solid steel girder constructions which are made by approved welders according to DIN 15018. Traverses have to be checked by an expert at least once a year. The basis for such checks is the standard DIN 15409 (lifting gear, loading equip-ment, supervision during application). Repairs are allowed to be made only at Dolezych . As manufacturer of traverses and lifting equipment we guarantee the adequate execution of all necessary works.

Off-centre load lifting by traverses:

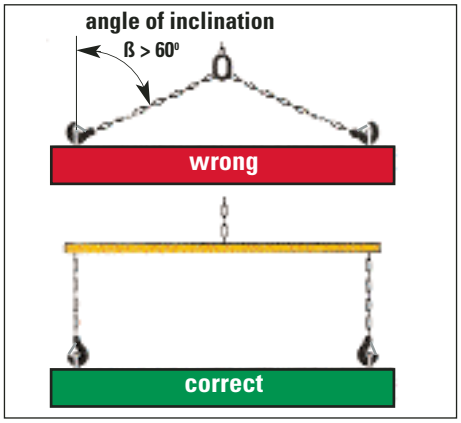
When the traverse does not hang above the load's centre of gravity, the load may drive out of the means of catching. The one-sided hanging of a traverse means: danger!

The angle of inclination of two chains of a catching assembly is not allowed to exceed 60°. By exceeding this angle the danger is pending ! The charge on one chain is in such a case bigger than the total force emitted by the load. Traverses allow lifting on low levels so, that they may be applied in low halls. Thanks to this in case of long loads angles of inclination may be fully avoided. The load under the traverses must be caught in such a way that it will not bend excessively and that its individual elements will not get loose in it and fall out.





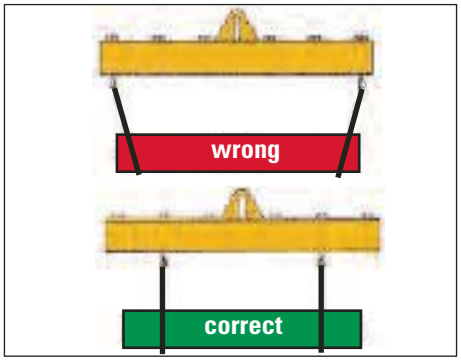
Unacceptable inclination angles will be avoided with traverses.



When applying a traverse the lifting capacity of a means of lifting will always be fully used because the chains are hanging vertically.

Lifting with an reverse angle of inclination:

The means of lifting may slip to the side under the load: danger!



Cranes

Cranes and lifting facilities manufactured by us are meeting the requirements of the present guidelines referring to machines and the respective regulations of UVV. They bear the CE mark. When delivered by us they will be accompanied by a control book / control certificate. It is a proof that adequate checks have been made at our factory and serves the documenta-tion of further regular checks. Prior to commissioning the lifting structure, it must be checked and when necessary - proved by a static expertise. According to BGR 500 all cranes are to be checked by an expert once a year. Lifting gear which is operated by means of a travelling crab are also subject to the BGR (former VBG 9) regulations. Prior to their commissioning, in case of their lifting capacity exceeding 1.000 kg or of at least two power driven motions, they have to be subjected to an acceptance inspection by a crane expert.
As in the case of all products, also here the principle applies: prior to the use, the accompany-ing service manual should be carefully read. Knowledge of pending dangers decreases the risk of an accident.

In general it is forbidden:

1. transporting persons
2. moving suspended loads above persons
3. pulling or dragging skew suspended loads
4. pulling by force fixed or jammed loads
5. lifting overweight loads
6. leaving suspended loads unprotected
7. slinging chains or ropes round sharp edges
8. using lifting chains or ropes as lifting slings
9. letting fall loads into a loose chain or rope

Adequately constructed place for storing DoLast traverses facilitates their handling, protects against damages and accidents.

Lifting clamps

For the transport of vertically suspended metal sheets must be clamps with safety lever applied.
For lifting the laying metal sheets, for their settling and turning, there exist adequate turning clamps. The tensile force acting at the clamp presses via a lever system the hardened pale with its grooves on the metal sheet so, that a kind of a micro shape joint is created. On the opposite side, the metal sheet with a surface hardness which should be between the values of St 37 and St 52,3, is pressed in a similar way by a rosette. The role of an internal spring is to keep the lifting clamp on its place also when the metal sheet is being settled, which takes place without engaging the lifting force. The metal sheet is being disengaged only after disengaging the safety lever. The clamping by the lifting system is efficient only in case when the metal sheet thickness lies in the clamp's range of grip. In case of a clamp with a grip within a lower range of e.g. 10 mm, too thin metal sheets e.g. of 7 mm would slip out.
Clamps for the vertical transport of metal sheets or plates are always suitable for the transport of individual pieces only.
For horizontal metal sheet transport purposes exist bolted and not bolted clamps. For thin metal sheets which tend to bend considerably and may be swinging, recommended are bolted clamps. In order to safely transport horizontally metal sheets or packs of metal sheets it would be more advisable to apply DoLast traverses and 4 clamps. For dry and polished metal sheets are special clamps available,

Das aktuelle Dolezych-Tragfähigkeitsposter für alle Anschlagmittel Artikel-Nr. 03955555

which have a higher pressure force on even, not grooved surfaces of pressing, in order to avoid notches in the metal sheet.
For special profiles like rails, sheet piles or double tee-bars exist special clamps which partly work in the shape joint mode.
Remote operated clamps are compressed air or mechanically actuated ones. This is particularly of benefit in case of clamp traverses, because the catching person, which stands outside the range of danger, may release all the clamps at the same time.
For application with chemicals and at temperatures higher than 50° the standard clamps are unfit. The lever joints would soon get damaged. For the application with chemicals we have special clamps in our program. Please inquire.

Because of the various clamp structures: service manuals delivered with the respective types of clamps must be definitely observed!

The general principle is: to be applied are allowed only clamps with legible inscriptions regarding lifting capacity, range of grip and on the data plate.

Servicing instructions:

Surfaces for clamp application on the transported load must be located exactly opposite to each other. The surfaces must be free of scale, dirt, grease and other coatings. Under vertical lifting and turning by means of the adequate clamps, only one load unit may be transported.
When settling down and turning with one or more lifting clamps, the bottom edge must keep contact with the ground. In order to avoid swinging of the load it must be caught above its centre of gravity and still better – one should work with two clamps.

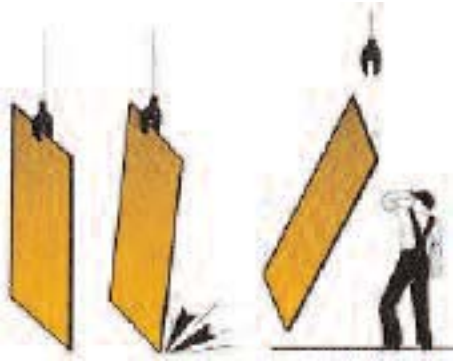
Nobody is allowed to be under suspended loads and within the range of peril!

Prior to the first application of a clamp and after every repair, as well as at least once a year, the clamp is to be checked by an expert. In case of regular use, it is recommended to submit it to inspections in intervals of 3 months the most. The bolts, the housing, the suspension and levers are to be checked for deformations and cracks. Grab elements are to be exchanged when they will get visibly worn. Important is then the examination of every tooth, because only 1 tooth gets worn when the iron sheet thickness remains equal!
During the examination, also the spring tension is to be checked. With replacing worn elements should be Dolezych ordered. Only original spare parts secure correct functioning of clamps.

Control, repair and maintenance services of Dolezych for any lifting gear, means of catching and load protection.

Lifting clamps
Screw clamps
Box grabs

DoLast



Make sure that the clamps is closed!

In order that the DoLast lifting clamps will be safely lifting metal sheets, the surface hardness of the transported load must be below HRC 30!

Harder material ads to premature wear of grabbing teeth Lifting clamps are a solution for the problem of metal sheet and profile transports and they can be exactly adapted to your scope of application. The application of clamps and grabs is governed by the stipulations of BGR 500 (former UVV 18.4).

Important: the clamps and the load to be transported must be matching with respect to the place of catching, because of the pending danger that the load may slip out. In order to secure the holding pressure between the clamp and the metal sheet, always only one metal sheet is allowed to be transported in one clamp.

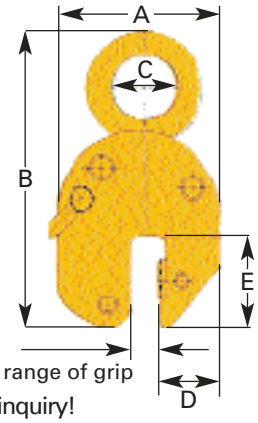
The Do 85 box grab catching outside or inside

article no. Do 85/a	article no. Do 85/i	lifting capacity- kg	width of grip mm	weight ca. kg	price per piece EUR
0881 6001	0881 6101	100	300/450	6	536,00
0881 6002	0881 6102	200	300/450	8	577,00

For the purpose of internal factory transport of small elements (e.g. in a warehouse or when accepting goods).

Do 80 lifting clamp

article no.	lifting capacity t	range of grip mm	weight kg	A	B	C	D	E	price per piece EUR
0892 0005	0,5	0-16	1,5	99	195	29	33	47	180,00
0892 0010	1,0	0-20	3,0	126	225	50	49	70	204,00
0893 2020	2,0	0-32	9,3	192	312	80	75	96	253,00
0893 2030	3,0	0-32	9,3	192	312	80	75	96	319,00
0895 0040	4,0	0-32	12,0	197	339	80	68	93	381,00
0895 0060	6,0	0-50	21,0	293	442	89	95	143	544,00

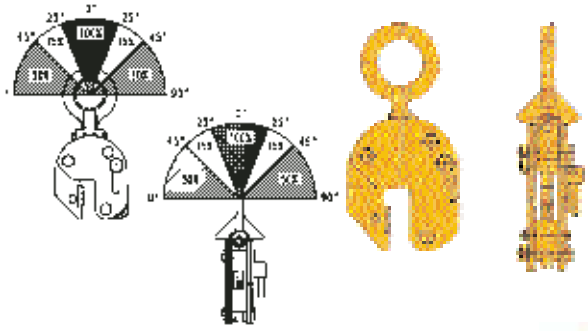


Metal sheet grab of higher lifting capacity and a wider range of grip – on inquiry!

Do 81 lifting clamp with swivel eye

The grab may be catching the metal sheet in all positions. It can lift from a horizontal position, from the vertical position it can lay down, or when caught on the side, it can lift over the edge.

Attention:lifting capacity gets reduced because of sliding angle of the deflectable eye.



article no.	lifting capacity t	range og grip mm	weight ca. kg	price per piece EUR
0892 0110	1,0	0-20	4,5	325,00
0893 2120	2,0	0-32	13,5	409,00
0893 2130	3,0	0-32	13,5	446,00
0893 2145	4,5	0-50	33,0	571,00
0893 2160	6,0	0-50	38,0	630,00
0893 2161	6,0	50-100	42,0	810,00

Do 82 screw clamp with shackle for vertical and horizontal pull

This screw clamp, which can be applied in two directions, has wide grip ranges and therefore it offers versatile application possibilities

article no.	lifting capacity kg	range of grip mm	weight ca. kg	price per piece EUR
0830 1500	1.500	0 - 32	5,1	332,00
0830 3000	3.000	0 - 50	8,9	462,00
0830 5001	5.000	0 - 80	32,0	771,00

Do 88 lifting clamp with an adjusting screw

Lifting clamp with a protection, immobilized when closed. Suitable for lifting and turning by 90° of not coated particle boards of a thickness of up to 45 mm. The plastic coated grabbing jaws may be steplessly adjusted by means of the adjusting screw.

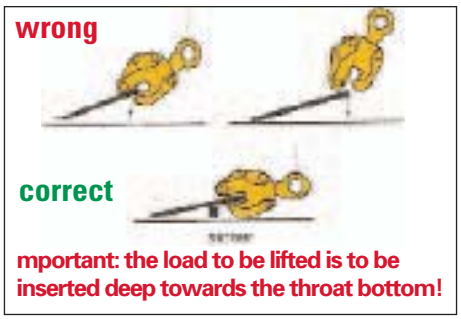
article no.	lifting capacity kg	range of grip mm	weight ca. kg	price per piece EUR
0824 5002	300	0 - 30	4,5	410,00

Particularly useful for particle boards!

Do not use clamps of high lifting capacity for light loads, as the clamping strength is then too small!

Attention: in case of horizontally carrying clamps, the lifting capacity gets reduced in dependence of the angle of inclination of means of catching.

angle of inclination	lifting capacity
0 - 30°	100%
30 - 45°	70%
45 - 60°	50%



mportant: the load to be lifted is to be inserted deep towards the throat bottom!

Horizontal carrying clamps grabs lifting clamps

DoLast

Do 90 K horizontal lifting clamp

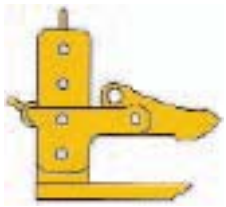
The horizontal lifting clamp for the transport of shape stable metal sheets, packages of metal sheets, steel plates. The lifting clamps are to be fixed on adequate suspensions, which we supply on request, and attached to three, or better four points.

article no.	lifting capacity kg	range of grip mm	weight ca. kg	price per piece EUR
0842 5105	250	0 - 25	2,0	108,00
0845 1110	500	0 - 51	3,0	118,50
0845 1115	750	0 - 51	4,0	120,00
0845 1130	1.500	0 - 51	10,0	138,50
0845 1160	3.000	0 - 51	13,0	265,00
0846 5180	4.000	0 - 65	18,0	285,00

Do 90 K horizontal lifting clamp, manually adjustable

The horizontal lifting clamp for the transport of metal sheets and packages of metal sheets. The range of grip can be easily adjusted from 0 up to max. 350 mm by means of an inserted bolt. The respective range of clamping has a fixing width of 60 mm.

article no.	lifting capacity kg	range of grip mm	weight ca. kg	price per piece EUR
0898 1810	500	0 - 150	10,0	328,00
0898 1815	750	0 - 300	12,0	371,00
0898 1830	1.500	0 - 180	12,0	436,00
0898 1831	1.500	0 - 300	14,0	451,00
0898 1830	1.500	0 - 180	15,0	472,00
0898 1860	3.000	0 - 180	18,0	494,00
0898 1862	3.000	0 - 350	21,0	532,00



Do 83 multi-purpose grab with a simple opener

The multi-purpose grab lifts objects which fit into its grabbing throat. Fast, simple and reliably. The big range of grabbing enables applying it for most different transport purposes within the steel and apparatus construction sector, for delivery of machine tools and production equipment, as well as for the purpose of welding and assembly of a variety of products. Thanks to the spring tension of the clamping jaw, the transported product is well fixed even when the means of lashing will be relieved.

The multi-purpose grabs with a lifting capacity of up to 2,0 t are furnished with round steel bar chains, while grabs of a higher lifting capacity – with sprocket chains (Fleyer-chains).

article no. Do 83	lifting capacity kg	throat width mm	width of grip mm	own weight ca. kg	price per piece EUR
0882 1003	350	100	0 - 100	9,0	473,00
0882 2003	350	200	90 - 200	14,0	638,00
0882 1007	750	100	0 - 100	9,0	517,00
0882 2007	750	200	90 - 200	15,0	696,00
0882 1012	1.250	100	0 - 100	15,0	573,00
0882 2012	1.250	200	90 - 200	26,0	762,00
0882 1020	2.000	100	0 - 100	22,0	713,00
0882 2020	2.000	200	90 - 200	30,0	920,00
0882 9030	3.000	90	5 - 90	25,5	928,00
0882 9050	5.000	90	5 - 90	30,0	1155,00
0882 1050	5.000	170	80 - 170	44,0	1334,00
0882 1100	10.000	100	0 - 100	70,0	2457,00
0882 2100	10.000	200	100 - 200	101,0	3004,00

Do 80 G lifting clamp with a smooth grip plate

Lifting clamp with a safety immobilizer and a smooth, large pressure plate for metal sheets with a sensitive surface. For vertical transport and for turning by 90°. This clamp has a very high force of pressing; it operates by purely pressing and leaves no impressions on the transported load.
The force of clamping has been calculated for the friction force of $\mu = 0{,}25$ with a double safety factor.

article no.	lifting capacity kg	range of grip mm	weight ca. kg	price per piece EUR
0890 0105	500	0 - 10	7	468,00
0890 0110	1.000	0 - 15	9	532,00
0890 0115	1.500	0 - 20	12	642,00
0890 0125	2.500	0 - 30	22	1028,00
0890 0150	5.000	5 - 50	45	1902,00
0890 0102	250	10 - 50	8	513,00
0890 0106	500	10 - 50	10	532,00

Do 86 MP 51 lifting clamp

article no.	lifting capacity kg	range of grip mm	weight ca. kg	price per piece EUR
0821 9011	1.000	0 - 25	4,0	236,00
0823 2011	1.000	25 - 50	4,2	268,00
0821 9021	2.000	0 - 30	7,5	324,00
0823 2021	2.000	30 - 60	8,0	416,00
0823 3035	3.000	5 - 35	12,0	378,00
0823 3070	3.000	35 - 70	12,5	484,00
0823 5050	5.000	5 - 50	18,0	489,00
0823 5100	5.000	50 - 100	19,0	569,00

For vertical lifting and turning by 180° of metal sheets, steel plates, girders and steel construction elements. With protection, when closed – immobilized so, that the clamp can not get released from the load in case of unintentional disengaging.

Available also with a deflectable eye!

Grabs

DoLast

On request, all grab may be supplied with an automatic opening and closing (step working switch) system. The gripping jaws have various shapes and different linings.

Do 610 grab or round profiles

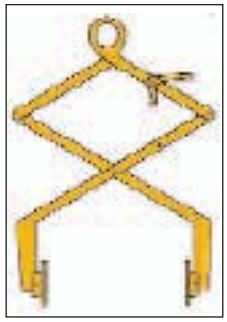
For horizontal transport of round bars, pipes etc.
The tong is furnished with an open keeping device in order to position it above the load open.

article no.	lifting capacity kg	width of grip mm	weight ca. kg	price EUR
0880 6100	250	40-150	6	291,00
0880 6101	250	60-250	11	327,00
0880 6102	500	40-200	15	364,00
0880 6103	500	100-350	25	432,00
0880 6104	500	200-500	35	584,00
0880 6106	1.000	100-350	35	430,00
0880 6107	1.000	200-500	50	685,00
0880 6110	2.500	100-350	60	815,00
0880 6111	2.500	200-500	72	1040,00

Do 620 grab or rectangular profile

Gripping jaw with protective lining. Particularly suitable for the transport of loads of steel, concrete, stone, marble, wood and other firm bodies.
Important: the transported load must be free of oil and grease. Designed for the friction coeffi-cient μ > 0,75. In case of a lover friction coefficient, the clamp must be stronger through construction changes. Please inquire.

article no.	lifting capacity kg	width of grip mm	weight ca. kg	price EUR
0880 6200	250	20 - 60	7	426,00
0880 6201	250	50 - 125	10	432,00
0880 6202	250	150 - 260	14	455,00
0880 6203	500	50 - 125	12	451,00
0880 6204	500	150 - 260	16	513,00
0880 6205	500	250 - 500	22	546,00
0880 6206	1.000	150 - 260	28	581,00
0880 6207	1.000	250 - 500	40	706,00
0880 6208	1.000	480 - 750	60	819,00
0880 6209	2.500	150 - 300	70	819,00
0880 6210	2.500	250 - 500	90	960,00



Do 630 internal grab

Internal grab with parallel jaw guidance for wire, pipe or metal sheet coils.
Please inform us of the application purpose to respectively adapt the gripping jaws. The coils have to be bandaged.

article no.	lifting capacity kg	width of grip mm	weight ca. kg	price EUR
0880 6300	1.000	400-500	65	2480,00
0880 6301	2.500	400-500	130	3030,00
0880 6302	2.500	500-600	150	3448,00
0880 6303	5.000	400-500	220	4092,00
0880 6304	5.000	500-600	240	4317,00

Do 14 profile steel grab

The profile steel grab is ideal for transport of profiles with double flanges. A particularly robust execution with an open keeping lever.

article no.	lifting capacity kg	width of grip mm	weight ca. kg	price EUR
0816 1410	1.000	80-150	15,0	442,00
0816 3010	1.000	80-300	20,0	490,00
0816 1425	2.500	80-150	22,0	496,00
0816 3025	2.500	100-300	35,0	616,00
0816 1450	5.000	100-150	35,0	712,00
0816 3050	5.000	100-300	50,0	780,00

Do 690 rail grab

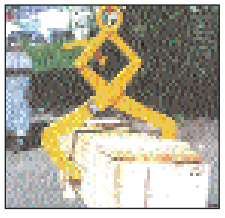
For transport of the type S and UIC wide bottom rails (Vignoles rails) and of crane rails; a particu-larly stable execution. Please inquire about rails with an asymmetrical profile.

article no.	lifting capacity kg	width of grip mm	weight ca. kg	price EUR
0880 6900	1.000	15 - 85	15	443,00
0880 6901	2.000	15 - 85	20	548,00
0880 6902	4.000	15 - 95	25	720,00

Do 660 bale and box grab

Regular tgrab which gets pressed into a bale and keeps the load reliably. It has been designed specially for boxes, wooden beams, special bales of any type.

article no.	lifting capacity kg	width of grip mm	weight ca. kg	price EUR
0880 6600	250	250-500	12	577,00
0880 6601	500	250-500	15	590,00
0880 6602	500	300-600	18	693,00
0880 6603	1.000	600-1.000	38	848,00
0880 6604	1.000	800-1.200	45	960,00



Attention !

The self-compensation function of fork stackers requires a minimum load of 20 % of their nominal carrying capacity.

Fork stackers and safety lifting gear

DoLast

Do 502 forklift

article no.	lifting capacity kg	height of (inner) clear space adjustable mm	own weight ca. kg	price EUR
0878 4010	1.000	1.100 - 1.800	140	893,00
0878 4015	1.500	1.300 - 2.000	165	940,00
0878 4020	2.000	1.300 - 2.000	220	1101,00
0878 4030	3.000	1.300 - 2.000	280	1236,00
0878 4050	5.000	1.300 - 2.000	380	1750,00

automatic weight compensation!

With the load self-compensation function, of adjustable height. With adjustable teeth for handling all applied types of pallets and storage bins.

Do 520 forklift

article no.	lifting capacity kg	height of (inner) clear space adjustable mm	own weight ca. kg	price EUR
0878 0510	1.000	1.100 - 1.600	130	740,00
0878 5215	1.500	1.300 - 2.000	150	825,00
0878 5220	2.000	1.300 - 2.000	200	1038,00
0878 5203	3.000	1.300 - 2.000	250	1175,00
0878 5250	5.000	1.300 - 2.000	370	1688,00

Manuelly adjustable!

Manually adjustable height. With adjustable teeth and manual weight compensation function.

Do 115 TK fork stacker – telescopic loader

article no.	lifting capacity when unloading of mm	kg	own weight ca. kg	price EUR
0839 0250	710-1.290	2.500	175	1750,00
	1.590	1.800		
	2.055	1.200		
	2.655	850		
	3.055	700		
	3.655	560		

With the DoLast telescopic loader you are con-verting every fork stacker into a mobile crane and by means of this combination you can carry out many loading and unloading works, as well as internal and external transports. The telesco-pic loader is being drawn over the teeth of the fork stacker and secured with a chain against slipping off. The load's centre of gravity shifts to the front and up. Let us or the fork stacker manufacturer make for you the data plate for the combination.

Do LM 5 rope tightening clamp

article no.	rope ø mm	price EUR
0840 7015	5-15	136,00
0840 7020	8-20	231,00
0840 7021	*8-20	277,00
0840 7032	18-32	695,00

* clamp jaws with grooves

DoT-series of multi-purpose pulls "Superleicht" (super light)

Multi-purpose pull	Do T 508	Do T 516	Do T 532
article no. without the rope	0802 2082	0802 2161	0802 2321
usable strength kg	800	1600	3200
length of devices mm	420	530	620
own weight kg		6,6	13 22
Price EUR	315,00	425,00	685,00
Steel wire rope Ø	8,4	11,5	16
Length of rope *	20	20	20
Price EUR	77,50	112,00	156,00
Box of steel sheet			
Price EUR	75,00	99,50	125,00

*** with terminal and by means of a thimble attached safety hook.**

Do 110 stacker hook, regular

article no.	lifting capacity t	weight ca. kg	price EUR
0899 0090	2,0	7	185,00
0899 0093	3,2	8	205,00
0899 0095	5,0	10	250,00

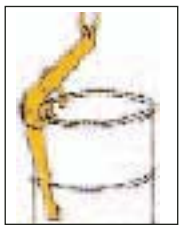
Further products for forklift trucks, e.g. the stacker hook for 2 teeth will be supplied to you on request!

Do 301 S barrel edge clamp

article no. 0809 0700 price **EUR** 245,00

For transport of standing Metal barrels. Easy handling
- low own weight.

Lifting capacity: 700 kg
Own weight: 7 kg



Do 300 S barrel clamping hoop

article no.	lifting capacity kg	barrel diameter mm	price EUR
0870 0800	800	560-610	540,00
0870 0801	800	390-415	490,00

For the transport of standing barrels and casks with shoulder. By a simple lever motion on the hat packing will be fast and reliably tightened.

Barrel suspension of woven lifting belts plus lashing belt

article no.	lifting capacity kg	number of suspensions	price EUR
0515 9902	500	2 belts	71,00
0515 9903	500	3 belts	87,00

For barrel transport (barrel Ø max. 0,7 m) with a lashing belt. The suspension consists of two or alternatively three carrying belts with reinforced terminal slings and of a lashing belt for fixing the barrel.

Lifting gear safety articles

DoLast

Unnecessary presence under the shape joint lifting gear, e.g. crane hooks/hook chains, is forbidden. Absolutely forbidden is the presence under magnet, vacuum and friction force lifters. In force are respective regulations according to UVV

Digital crane scales Do 2080

article no.	range of weighing kg	price per piece EUR
0804 5100	0-1.000	1818,00
0804 5200	0-2.000	2070,00
0804 5320	0-3.200	2133,00
0804 5630	0-6.300	2430,00
0804 5800	0-8.000	2628,00
0804 5000	0-10.000	2862,00

Compact, light, simple in handling and the highest level of safety - are the properties of the electronic, digital crane scale Do 2080. Range of weighing Being of the most up-to-date standard, this crane scale offers from 0 – 1 t up to 0 – 10 t at a reasonable price a solution for all weighing applications for expedition of goods, for their acceptance control, for inventory purposes or at the site of construction.

● Well legible LCD indicator ● overload warning indicator ● automatic breaking after 10 minutes ● stable housing ● low own weight ● complete outfit ● on request with a 4 channel infra-red remote operation.

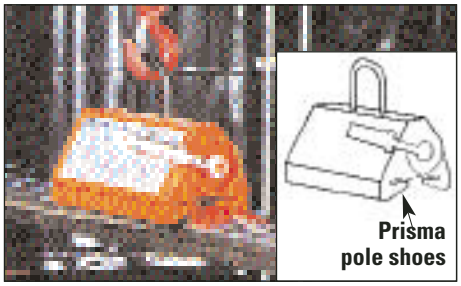
Do 2250 crane scale with hand indicator

article no.	range of weighing kg	scale unit kg	height mm	weight ca. kg	piece EUR
0845 0002	200	1	230	5,0	837,00
0845 0005	500	2	230	5,0	875,00
0845 0007	750	5	230	5,0	950,00
0845 0012	1.250	5	230	5,0	950,00
0845 0020	2.000	10	230	5,5	1100,00
0845 0032	3.200	20	280	5,5	1332,00
0845 0050	5.000	20	300	6,5	1407,00

- hydraulic, servicing free
- stable housing
- hook with a safety finger
- shock absorbing rubber ring with zero tare fixing
- 12 mm inscriptions

Do 2 MAG permanent load lifting magnet

article no.	recommended lifting force flat material kg	round material kg	control strength in kg	acceptance for round material in mm	weight in kg	price per piece EUR
0803 0103	300	200	900	ø 60 - 180	23	630,00
0803 0106	500	250	1500	ø 60 - 180	39	1008,00
0803 0112	1000	500	3000	ø 60 - 180	106	1566,00
0803 0121	2000	1000	6000	ø 60 - 180	212	2754,00



- the intensified Permanent Magnet System, outfitted with high energy magnets Neodym (NdFeB), is a warranty for a very high operational safety
- applicable everywhere, as no electric current is necessary
- compact structure and low own weight
- housing and switches of high quality endurable material secure a long life
- intensified permanent lifting services
- after switching off – minimum of residual magnetism
- very low switching off capacity required
- low costs of servicing
- delivered with service manual, control certificate and with the declaration of EU conformity

Fields of application

- for loading and positioning of processed products of up top 2.000 kg
- for bigger and heavier products may be applied two and more Do 2 MAG lifting magnets
- as an efficient aid at e.g. construction and assembly works, ship building and warehouse transports

Do 2120 lashing capacity meter and crane scale

Do 2120

Also available with a radio read-out device – please inquire!

article no.	max. range of measuring up to kg	min. masuring value kg	size of LCD figures	hight of strukt. over everything mm	weight in kg	price per piece EUR
0845 3002	250	0,1	18	190	1,1	1392,00
0845 3005	500	0,2	18	190	1,1	1418,00
0845 3012	1.250	0,5	18	190	1,1	1443,00
0845 3025	2.500	1,0	18	214	1,4	2035,00
0845 3050	5.000	2,0	18	234	1,9	2086,00
0845 3125	12.500	5,0	25	310	3,8	2294,00
0845 3250	25.000	10,0	25	360	6,6	2577,00
0845 3500	50.000	20,0	25	440	15,0	3585,00
0845 3100	100.000	50,0	25	660	46,0	9450,00
0845 3000	remote read-out device with a cable of 10 m					520,00

Light, compact and robust. Tara stop within the whole range of measuring. Serial indication of top values, automatic 0-positioning when switching on. Automatic switching off for battery saving. Low current consumption: 250 hours of operation and more with only one set of bateries. Terminal for data printing on a printer and data input into a PC. Remote read-out device, shackle and hook as accessories. Precision +/- 0,2% of final value. Range of temperature - 10° up to + 40°C.

You will find Dolezych lease service for lifting gear under www.dolezych.de

Do JH Machine lift

model	Do JH 5N	Do JH 10N	Do JH 15N	Do JH 25N
article no.	0881 4924	0881 4925	0881 4928	0881 4935
lifting capacity kg	5.000	10.000	15.000	20.000
lowest level of application mm15	20	25	30	
highest level of application mm	185	200	220	240
lifting height mm	6x34	6x36	5x47	5x52
dimensions: l x w x h mm	260x250x270	300x310x320	370x330x360	430x400x400
own weight ca. kg	21	38	49	81
price per piece **EUR**	979,00	1377,00	2174,00	2869,00

DoLast Machine-Lifts are manufactured according to the guideline of the machine directive of the European Union, they are marked with CE and they will be delivered with instructions of use.

Machine lifts are indispensable aids everywhere, where lifting or exact levelling (balancing, evening up, equalizing) of heavy machines is involved. Easy handling, high efficiency in fitting and production halls, in machine building and machine trade, in repair shops, for forwarding purposes, warehousing and at fairs.

The hydraulic universal hoist is applied everywhere, where heavy loads must be lifted or lowered. These hoists may also be applied for horizontal pressing, when the built in piston pump shows down. Because in addition the spindle may be screwed out, in principle idle stroke or additional backing do not occur.

Do JP compact hand pumps

Model	Do JP 15	Do JP 25
Article no.	0881 4926	0881 4936
Fuel volume / usable length L	1,75/1,6	2,8/2,6
Working pressure bar	520	520
Connections, pieces	2	2
Dimensions:lxwxh mm	300x200x280	400x300x280
Own weight ca. kg	9	11
Applicable hoists	2xDo JH 5-JH 15	2xDo JH 5-JH 25
Price per piece **EUR**	533,00	547,00

Do JS hydraulic hoses

Model	Do JS 2	Do JS 3	Do JS 4	Do JS 6	Do JS 15
art. no.	0881 4907	0881 4917	0881 4927	0881 4937	0881 4947
Dry coupling, number	2	2	2	2	2
length m	2	3	4	6	15
EUR/piece	202,00	231,00	260,00	317,00	576,00

Do UH 9 universal hoist with a screwed out mandrel

article no.	lifting capacity kg	lifting height mm	installation height mm	spindle height mm	max. installation height mm	own weight ca. kg	price per piece **EUR**
0881 4902	2.000	115	181	50	346	2,7	36,00
0881 4904	4.000	126	205	60	391	3,7	43,00
0881 4906	6.000	130	219	75	424	4,7	57,00
0881 4908	8.000	152	225	70	447	5,7	90,00
0881 4912	12.000	153	240	80	473	8,0	111,00
0881 4920	20.000	153	240	80	473	11,0	173,00
0881 4930	30.000	180	280	–	460	22,0	285,00
0881 4950	50.000	145	216	–	361	18,5	969,00

Lever hoists
Manually operated gears
Girder brace
Crab buffers

DoLast

Attention!

During load protection are lever hoists allowed to be charged with 50% of their lifting capacity. There exists the danger of exceeding the acceptable lashing capacity (LC) of means of lashing and of lashing catches.

Here lashing chains with ratchet spanners or spindle spanners are the better choice

Do BR lever hoist

article no. Do BR	lifting capacity kg	price EUR
0884 8025	250	84,00
0884 8050	500	122,00
0884 8075	750	147,00
0884 8150	1500	188,00
0884 8300	3000	286,00
0884 8600	6000	490,00

- stable precision gear
- galvanized chain of high strength according to DIN EN 818-7
- load pressure brake with free wheel of chain
- chain guide
- whole frame of steel and still light
- all hooks with safety, hooks turning 360°
- disconnecting switch for fast pulling a free of load chain

Do AL lever hoist

article no. Do AL	lifting capacity kg	price EUR
0883 9075	750	433,00
0883 3100	1000	480,00
0883 0150	1500	582,00
0883 9300	3000	785,00

Compact structure, housing and hand lever of aluminum. Low own weight. Round steel bar chain of high strength according to DIN EN 818-7.

Advantages:

- Low strength applied
- Short hand lever
- Chain free wheel switch
- Jointed carrying hook

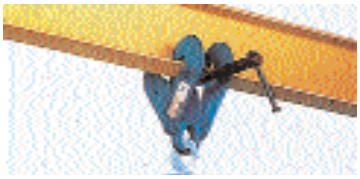
Do 190 / Do 191 manually operated gears with winch-drive

article no.	max ability of rope pulling kg	width of girder flange type A mm	width of girder flange type B mm	smallest curve radius m	net weight type A ca. kg	net weight type B ca. kg	Preis price per piece EUR type A	Preis price per piece EUR type B
Do 190							**type A**	**type B**
0898 0005	500	50-220	160-300	0,90	8,00	10,6	146,00	212,00
0898 0010	1.000	58-220	160-300	0,90	9,00	11,6	172,00	240,00
0898 0020	2.000	66-220	160-300	1,15	16,00	19,3	225,00	318,00
0898 0030	3.000	74-220	160-300	1,40	32,00	25,8	323,00	467,00
0898 0050	5.000	90-220	180-300	1,80	48,00	52,2	489,00	668,00
Do 191 with winch drive								
0898 1005	500	50-220	160-300	0,90	11,2	13,8	250,00	346,00
0898 1010	1.000	58-220	160-300	0,90	11,2	13,8	284,00	380,00
0898 1020	2.000	92-220	160-300	1,20	18,0	21,3	353,00	463,00
0898 1030	3.000	74-220	160-300	1,40	35,4	39,1	477,00	639,00
0898 1050	5.000	90-220	180-300	1,80	51,8	56,0	668,00	871,00

- compact construction of with low installation height

- adjustable for various girder and profile ranges (INP, IPE and PB)
- precise fixing by means of an eye traverse with a counter thread
- Central suspension of pulley block – no motion on the traverse to the side
- Rolls of grey cast iron
- Silent run due to use of ball bearings
- Serial protection against tilting

Girder brace Do 193 + 194



Do 193 article no.	lifting capacity kg	width of flange mm	price per piece EUR
0898 3010	1.000	75-230	178,00
0898 3020	2.000	75-230	208,00
0898 3031	3.000	80-320	298,00
0898 3052	5.000	90-310	463,00
0898 3100	10.000	90-320	890,00

Do 194/BR article no.	lifting capacity kg	width of flange mm	price per piece EUR
0898 4010	1.000	60-150	172,00
0898 2920	2.000	75-200	402,00
0898 4020	2.000	200-300	454,00
0898 3730	3.000	75-200	488,00
0898 4030	3.000	200-320	524,00

Their purpose is fast creation o lashing catches, accepting of lifting gear, of manoeuvrable rolls and loads.

Do 920 crab buffer

article no.	width of girder mm	price EUR
0898 3991	50 - 104	89,50
0898 3992	90 - 300	92,75

The ideal crab end buffer, suitable for manual and winch chain traversing gear as well as for all kinds of electrical traversing gear.

Do not sling the chain of lifting gear around the load. The chain of a lifting gear is no means of catching.

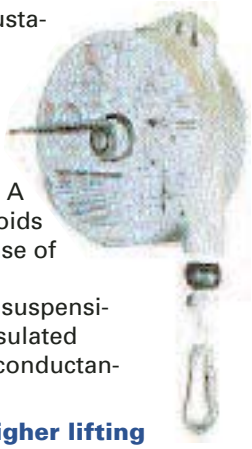
Balancer
Pulley block
C-hook

DoLast

Do 9320 balancer, medium version

article no.	lifting capacity kg	price EUR
0819 3201	1 – 2,5	117,60
0819 3202	2 – 4,0	123,00
0819 3204	4 – 6,0	143,00
0819 3206	6 – 8,0	174,00

Length of rope 2.000 mm. Stable design of aluminum casting, adjustable lifting force, steel wire rope, low friction rope guidance, clip hook, adjustable lifting up contact. A fall-protection avoids a load-crash in case of spring-breaking. Additional safety suspension, electrically insulated (against leakage conductance current).



Balancer of a higher lifting capacity – please inquire!

Do 415 coil tilting hook

article no.	lifting capacity kg	Coil-width mm	own weight ca. kg	price per piece EUR
0810 1505	500	100 - 200	8	478,00
0810 1510	1000	100 - 200	9	510,00
0810 1512	1000	200 - 300	12	575,00
0810 1525	2500	100 - 200	14	677,00
0810 1526	2500	200 - 300	17	710,00
0810 1530	3000	250 - 350	22	850,00

Suitable for tilting and raising of coils and steel strap reels. Facilitate tilting and raising of coils and steel strap reels which however, must be well banded.

Lowe own weight – easy handling.

Do 900 PLS pulley block with hook suspension

article no.		08 99...	...3005	...3010	...3020	...3030	...3050	...3100
Lifting capacity	kg	500	1.000	2.000	3.000	5.000	10.000	
Number of chain legs	1	1	1	1	1	2	4	
Regular lifting height	m	3,0	3,0	3,0	3,0	3,0	3,0	
Chain tensile force when pulling by hand daN	25	28	29	37	37	38		
weight at standard lifting	kg	10,0	12,0	19,0	35,0	41,0	78,0	
min. installation height	mm	350	383	485	554	688	765	
price per 3 m of lifting height	**EUR**	189,00	220,00	343,00	445,00	660,00	1258,00	
price per any add meter of lifting hight	**EUR**	32,00	34,00	41,00	70,00	97,00	143,00	

- high-tensile and varnished stell housing
- Low own weight
- Reliable
- Low maintenance
- Reasonably priced and economic
- Easy handling
- Robust compact housing
- 2-step transmission reduction gear. The hardened toothed wheels and pinions are running on roller bearings to reduce friction losses and to increase the grade of efficiency.
- Tempered load-wheels with four precise formed chain-pockets, roller bearing for easy running and low waste
- high-tensile,galvanized chain acc. to DIN 5684/EN 818
- Fully closed automatic load pressure break, asbestos brake-lining.

Each appliance is checked with an overload of 50 % and a test-certificate will be issued.

The Do 900 pulley-block is also available with an integrated rolling-gear (low installation-height) Do 901 R or with an integrated winch-rolling-drive Do 901 H.

Do 410 C rigid hook (coil hook) with counterweight and one point suspension

article no. Do 410	lifting capacity t	dimensions mm B	A	C	L	H	VxW	own weight ca. kg	price per piece EUR
0810 0102	0,5	250 - 500	375	70	400	520	100 x 50	20	769,00
0810 0103	0,5	375 - 750	565	75	400	520	100 x 50	28	1002,00
0810 0105	1,0	150 - 300	225	75	450	600	120 x 55	20	364,00
0810 0108	1,0	500 -1000	750	110	450	600	120 x 55	60	819,00
0810 0110	2,5	250 - 500	375	110	500	680	150 x 75	60	565,00
0810 0115	5,0	625 -1250	940	200	550	780	190 x 90	280	1498,00
0810 0118	7,5	500 -1000	750	230	550	830	230 x 110	290	1389,00
0810 0123	10,0	625 -1250	940	270	650	960	250 x 120	500	2275,00

Stable steel structure for special applications. The carrying arm of the coil hook gets thanks to its counterweight an inclination of 4% which results in preventing the load from slipping down.

Hand-lift
Workshop crane
Working platform

DoLast

Do 2500 hand-lift

Do 2500 stacker, technical data	
Total length	1.500 mm
Length of forks	1.150 mm
Minimum lifting height	70 mm
Maximum lifting height	195 mm
Total height of everything	1.180 mm
Inside diameter between the forks	250 mm
Width over the fork	550 mm
Own weight ca.	85 kg

article no.	price per piece **EUR**
0878 9824	374,00

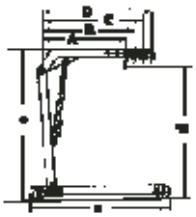
The fast aid at work in your material flow pratice.

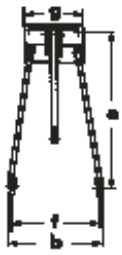
A hand operatedhand-lift which will solve your problem of load transports fast and reliably. With the hand -lift Do2500, which has been tested by TÜV and furnished with the CE – mark, a single person can transport comfortably and easily a load of 2.500 kg. The minimum height of tines resp. of their way in is 70 mm, while with a lifted load the maximum height of fork is 195 mm. Thanks to the structu-re's reinforcement by a 4 mm thick metal sheet, the work with this stacker is possible also under arduous conditions.

- hand lever with 3 functions
- low effort requirements
- long life hydraulics
- easy to control
- sturdy chassis
- no oil exchange necessary
- tandem fork rolls of polyurethane
- steering wheels at choice: of rubber or polyurethane
- easy drive under pallets

Do MKL – workshop crane

model		Do MKL 1000		Do MKL 2000	
article no.		08789805		0878 9810	
lifting capacity		kg	mm	kg	mm
at the length of	A	1000	980	2000	1.000
carrying arm	B	750	1.190	1500	1.110
	C	500	1.250	1000	1.220
	D	250	1.500	500	1.330
dimensions in mm	a	1.520		2.300	
	b	1.190		1.190	
	c	1.500		1.575	
	d	2.100		2.400	
	e	1.420		2.200	
	f	1.080		1.120	
	g	780		1.300	
weight ca.	kg	74		117	
price per piece	**EUR**	421,00		479,00	





Assembled within 30 seconds.

With a simply working hydraulic pump – for occasional use, or with a hydraulic pump of dual function for professional application.

Stable wheels with ball bearing based steering wheels for optimum mobility. Lowering by means of a delicately adjustable valve. A 360° turning crane hook.

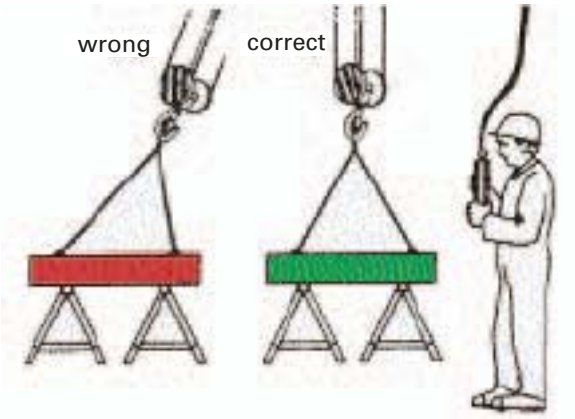
Do50 MB working platform

model	article no.	weight ca. kg	price **EUR**
50 MB/K*	0899 0131	120	780,00
50 MB/IV**	0877 9913	200	1.610,00

* for forklift
** for forklift and crane

For crane and fork lifts

The DoLast- working platform has been tested by the Professional Association Bau (building) and it is meeting the requirements of BGR 500. It has been accepted for handling both by a crane as well as by a forklift. For handling by a crane the working platform is being delivered with at choice: with a grip for a single chain suspension Do MB/1 or with grips for a four chain suspension Do MB/IV. On request, against a surcharge, it may be delivered with 2 steering rolls and 2 trestle-rolls. The acceptable total weight of the working platform is 500 kg. Allowed to forward 2 persons. The max. usable weight is 300 kg. One should also take into consideration that the lowest load capacity of the fork lift or crane must be of 750 kg.



Electric-chain and compressed air hoists

DoLast

Electric chain hoists Do 910 (hook suspension), Do 911 R (rolling gears), Do 911 E (electric gear)

Lifting capacity kg	125	250	500	500	1.000	1.600	2.000
Lifting speed, 2 step m/ min.	8 / 1,5	8 / 1,5	4 / 0,75	9 / 1,5	4,5 / 0,75	4 / 1	4 / 1
Number of chain legs	1	1	2	1	2	2	2
Motor capacity N / F in kW	0,36 / 0,07	0,36 / 0,07	0,36 / 0,07	0,82 / 0,14	0,82 / 0,14	1,45 / 0,36	1,45 / 0,36
Chain size in mm	4 x 12,3	4 x 12,3	4 x 12,3	5 x 15,3	5 x 15,3	7 x 22	7 x 22
connection-voltage-3 phase	400 V, 50 Hz	400 V, 50 Hz	400 V, 50 Hz	400 V, 50 Hz	400 V, 50 Hz	400 V, 50 Hz	400 V, 50 Hz
Do 910 – with hook suspension	0899 2215	0899 2216	0899 2225	0899 2750	0899 2710	0899 2720	0899 2732
Price per piece, **EUR**	1.215,00	1.235,00	1.270,00	1.400,00	1.490,00	1.970,00	1.995,00
Price for additional m lifting, EUR	20,00	20,00	35,00	45,00	45,00	60,00	60,00
Surcharge for handrail crab, **EUR**	95,00	95,00	95,00	130,00	130,00	200,00	200,00
Surcharge for electrical crab,**EUR**	960,00	960,00	960,00	960,00	960,00	1040,00	1040,00

Technical review

- compact structures with low hook dimension
- main and precision lifting speed are serial properties
- galvanized load chains
- upper hook suspension
- wear resistant and maintenance-free dry lamellar friction brake for high swit ching-numbers
- an overload-protection by a slip pro tects against an overloading and limits the lifting
- Designed according to F.E.M. in 1 Bm, 25% ED, 150 S/h
- High grade of protection against dust and humidity, protection ratio IP 54
- Insulation class F
- Direct control from 125 up to 2000 kg
- Contactor control from 2500 kg up to 5000 kg of lifting capacity
- 2 years guarantee
- Certified according to DIN ISO 9001
- Control book according to the CE and UVV regulations inclusive

Electric chain hoists for single phase alternating current 230 V / 50 Hz and electric chain hoists in the dust pro-tecting Ex-execution – against inquiry.

Do 1005 CP compressed air hoist, explosion proof

article no.	lifting capacity kg	lifting speed under full load m/min.	lifting speed without load m/min.	standard lifting length m	standard control length m	air compression bar	number of chain-legs pcs.	air consumption l/min.	installation height mm	own weight ca. kg	price per piece **EUR**
0818 5050	500	10,5	20,5	3	2	6	1	25	412	31	2665,00
0818 5204	2000	4,5	6,8	3	2	6	2	25	503	40	4665,00

- Compact structure with low hook dimension
- Lamellar motor for heavy work conditions
- 100% of worktime
- galvanized load chains
- upper hook suspension
- wear resistant and maintenance-free lamellar brakes
- overload protection by a built in cut-off valve
- end-switch-off for upper and lowest hook position
- Designed according to F.E.M. in 1 Am
- Work pressure 6 bar
- heat-insensible
- variable speed
- 2 years guarantee
- Certified according to DIN ISO 9001
- Control book according to the CE and UVV regulations inclusive
- Serial execution for Ex – section II2GD IIA T4 application, according to the Ex- classification RL 94/9/EG (ATEX 100a)

Heavy load transport gears

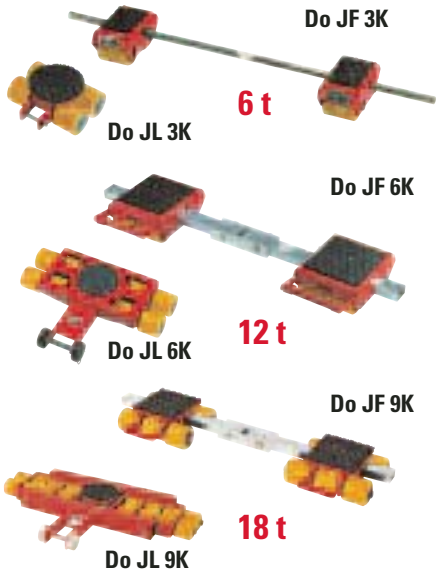
DoLast

Improvising is dangerous! For displacing heavy machines apply only verified transport gears.

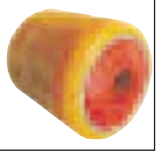
... for a fast and safe transport of heavy machines and unwieldy heavy loads.

Do JL control gear with steering rod and Do JF transport gear with connecting rod

model	Do JL 3K	Do JF 3K	Do JL 6K	Do JF 6K	Do JL 9K	Do JF 9K
Lifting capacity kg	3.000	3.000	6.000	6.000	9.000	9.000
no. of rolls	4	4	8	8	12	12
Ø of rolls mm	85	85	85	85	85	85
Installation-height	110	110	110	110	110	110
Bearing-face mm		140x120		220x120		180x170
Dimensions mm		200x140		310x220		310x300
Adjustable from – to mm		140-860		400-810		400-930
Turntable mm	170		170		170	
Dimensions mm	240x270		520x620		580x820	
Own weight ca.kg	16	17	48	32	61	42
Article no.	0881 4943	0881 4953	0881 4946	0881 4956	0881 4949	0881 4959
Price per piece **EUR**	331,00	277,00	837,00	588,00	1215,00	864,00



Serial production with polyurethane – plus lining for all gear bases



Do SF7 Heavy load transport gears

article no.	bearing length mm	bearing width mm	total height mm	lifting capacity kg	own weight ca. kg	price per piece **EUR**
0899 0066	120	120	108	20.000	48	1149,00
0899 0114	120	120	117	30.000	56	1270,00
0899 0256	135	135	140	60.000	90	1422,00

Complete with metal set box.

The transport set consists of:
4 pieces rolling cars
2 pieces turning-stool
2 pieces steering rods
2 pieces compensation elements
1 piece spur bars
1 piece metal box

Lifting capacity has been calculated this way that of 4 rolling cars always only 2 will be considered as the bearing ones. With that the ground unevenness has already been covered.

Prior to the delivery each transport gear is submitted to a functional test and is furnished with a test plaque for the next term of servicing.

Our lifting and transport gears have mani-fold proved excellent in daily application in all sectors where shifting of heavy loads is necessary.

Electrical winches steel winches

DoLast

Do 43/86 electrical rope winch

article-no.	rope tightening capacity upper most rope position daN / kg	speed of rope m/min.	min. rope ø mm	1 state m	total rope acceptance at upper most rope position m	price per piece EUR
0881 4301	125	11	4	6,4	32	1720,00
0881 4302	250	7	4	7,1	35	1953,00
0881 4305	500	4	6	5,7	30	2168,00
0881 4309	990	6	8	8,4	30	3686,00
0881 4310	1.000	6	8	8,4	30	3790,00
0881 4320	2.000	3	11	8,0	30	5581,00

Electrical rope winch complete with 30 m of rope, hook, switch, 3 m of feed cable fitting any plug (of 230 Volt

Winch (electrical rope winch, 12 + 24 Volt)

With direct current motor at choice: 12 or 24 Volt. For industrial, handicraft and agricultural purposes. For cross-country vehicles, trucks, workshops, boat trailers. Tested by Professional Association and accepted. Tensile force according to DIN 15020

Do 850 E electrical rope winch

type of winch	X 2-G	X 3-G	X 6 CD-G
article no.	0881 4152	0881 4154	0881 4155
Tensile force: 1 rope layer	887 kg	1.060 kg	1.580 kg
Tensile force: 1 rope layer	489 kg	754 kg	993 kg
Rope acceptance	12,2 m	12,2 m	30,0 m
Rope diameter	6 mm	7 mm	7 mm
Weight ca.	10 kg	15 kg	28 kg
Price per piece EUR	920,00	1153,00	1670,00

Do 860 E electrical rope winch

type of winch	X 9-G	Husky- G	E 10-G
article no.	0881 4160	0881 4161	0881 4162
Tensile force: 1 rope layer	2.040 kg	2.700 kg	3.000 kg
Speed of rope m/min.	0,6 - 5,2	1,2 - 6,9	9,4
Rope acceptance	30 m	30 m	30 m
Rope diameter	8 mm	10 mm	11 mm
Weight ca.	34 kg	50 kg	48 kg
Price per piece EUR	1890,00	2294,00	3125,00

Do 870 H hydraulic rope winch

type of winch	H 8-G	H 14-G
article no.	0881 4170	0881 4171
tensile force ca.	3.000 kg	5.880 kg
rope diameter	11 mm	14 mm
length of rope	30 m	30 m
volume flow	56 l/min	57 l/min
working pressure	150 bar	150 bar
speed of rope	15 m/min.	10 m/min.
weight (without rope)	40 kg	70 kg
Price per piece EUR	2293,00	3806,00

Do SW 101 steel winch according to DIN 7355 with safety crank

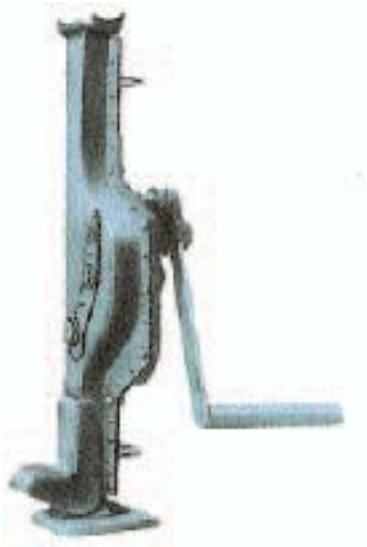
article no. with safety crank	lifting capacity kg	lifting height mm	hight of claws at lowest position mm	weight ca. kg	price EUR
0881 4400	1.500	350	65	13	250,00
0881 4401	3.000	350	70	20	285,00
0881 4402	5.000	350	75	27	335,00
0881 4403	10.000	400	80	42	524,00

Closed design, cylindrical gear with high transmission ratio, low crank pressure, gear and pinions located in molded part. Execution according to DIN 7355 with safety crank. The lifting claw may be in 100% charged with load.

Do SW 101 steel winch with ratchet crank

article no. with safety crank	lifting capacity kg	lifting height mm	hight of claws at lowest position mm	weight ca. kg	price EUR
0881 4410	1.500	350	65	13	288,00
0881 4411	3.000	350	70	20	322,00
0881 4412	5.000	350	75	27	372,00
0881 4413	10.000	400	80	42	566,00

Steel winch design as above however, with ratchet crank for operation in a very tight room, when the crank can not be turned 360°.



Rope winches
Pipe transport
Pipe handling

DoLast

Do SSW

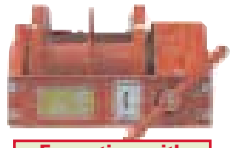
Do SWW safety rope winch

Do SSW	350	500	650	900
Article no.	0886 1035	0886 1050	0886 1065	0886 1090
Tensile force	350 daN	500 daN	650 daN	900 daN
Reel diameter	38 mm	48 mm	63 mm	63 mm
Steel rope ø, DIN 3060	4 mm	5 mm	6 mm	7 mm
drum capacity	15 m	20 m	20 m	25 m
drum length	200 mm	230 mm	230 mm	300 mm
hand	ca. 20 kp	ca. 20 kp	ca. 18 kp	ca. 19 kp
Transmission	2,5:1	3,75:1	8,75:1	8,75:1
Weight	2,15 kg	4,0 kg	6,85 kg	7,6 kg
Price **EUR** without rope	116,00	136,00	187,00	198,00

For lifting, pulling and dragging with an automatic braking mechanism (load pressure brake) and with rebound protection.

Do 238/99 worm wheel rope winch

article No	rope hoist capacity kg	rope ø mm	1 layer m	rope acceptance in upper position m	crank force 1 layer daN/kg	weight without rope ca. kg	price per piece **EUR**
0881 4600	250	4	4,0	107	5	13	344,00
0881 4601	500	6	4,4	68	9	16	532,00
0881 4602	1.000	8	6,0	69	14	26	630,00
0881 4607	1.500	10	5,4	50	20	28	695,00
0881 4603	2.000	11	6,2	60	12	60	1558,00
0881 4604	3.000	13	7,4	71	17	78	1739,00
0881 4605	5.000	18	6,4	39	34	115	2700,00



Execution with dividing web for double rope operation - on request!

Robust design, detachable and length adjustable crank. Designed according to DIN 15020. Simple fixing of rope by rope-clamps. From 2.000 kg two lifting speeds thanks to back gears of the cylindrical gear. Additioned are available: folding crank grip, division web, galvanized execution

Do 260/76 cylindrical gear rope winch

article no.	rope hoist capacity kg	rope ø mm	1 layer m	rope acceptance upper most position m	crank force 1 layer daN/kg	?????? ø mm	own weight without rope ca. kg	price per piece **EUR**
0881 4701	300	6	1,9	11,8	19	70	10	312,00
0881 4702	500	6	1,9	11,8	21	70	10	376,00
0881 4703	1.000	8	3	12,4	18	102	15	616,00
0881 4704	2.000	12	3,1	8,0	32	120	23	1038,00

Robust, practically closed housing of steel sheet, with a folding crank only at 2000 kg. Increase rope life thanks to big reel diameter.

Do 730 pipe suspension

article no.	lifting capacity kg	hook opening mm	weight ca. kg	price per piece **EUR**
0809 7310	1.000	200	31	500,00
0809 7325	2.500	250	56	635,00
0809 7340	4.000	320	101	1013,00

Easy and comfortable loading and unloading of pipes of all kinds. For pipes up to 4 m length. Point of gravity levelling by shortening the chains. Against a surcharge, hook may by supplied with rubber coating. **Scope of delivery per suspension: 2 pipe hooks with high-tensilechain which may be shortened, including crane-eye-hook.**

Do 725 tripod pipe-aying-thread

article no.	lifting capacity kg	total length hoisting winch support m	width of spread ca. m	lifting height from bottom m	total lifting height m	rope length m	rope ø mm	rope suspension pieces	own weight ca. kg	price per piece **EUR**
0872 5050	500	2,5	2,1	2,1	6,5	8	6	1	45	1121,00
0875 2051	500	3,0	2,5	2,6	7,0	9	6	1	52	1202,00
0872 5100	1.000	3,0	2,5	2,3	7,0	17	6	2	59	1431,00
0872 5101	1.000	4,0	3,3	3,3	8,0	21	6	2	86	1782,00
0872 5200	2.000	3,5	2,8	2,6	7,5	19	9	2	135	2214,00
0872 5201	2.000	4,0	3,3	3,1	8,0	21	11	2	173	2349,00

A rope winch integrated in one tripod leg with an automatic radial load pressure brake. Direct run of reel for fast (without load) rope coiling. Handling outside the range of danger. Design meeting the accident protection regulations. Light pipe structure, low own weight. Easy to erect. The tripod may be delivered also without the winch, only with the head joint and a turning hanging eye. Ideal in combination with a pulley block with a spur wheel or an electric chain block.

Pipe transport equipment

DoLast

Do 725 K round profile clamp

article no.	lifting capacity kg	width of grip mm	own weight ca. kg	price EUR
0872 5025	250	30 - 50	3	269,00
0872 5026	250	65 - 85	3	271,00
0872 5027	250	80 -100	4	278,00
0872 5050	500	30 - 50	3	271,00
0872 5051	500	50 - 80	4	278,00
0872 5052	500	80 -100	5	307,00

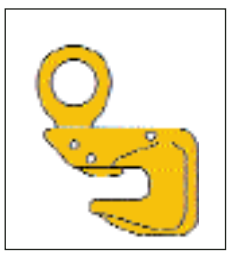
Safety clamp for horizontal transport of pipes and round materials. Particularly suitable for putting of in and out of racks.

Do 722 pipe profile clamp

article no.	lifting capacity kg	width of throat mm	own weight ca. kg	price EUR
0872 2005	500	0 - 25	4	262,00
0872 2010	1.000	0 - 25	6	275,00
0872 2015	1.500	0 - 30	10	294,00
0872 2030	3.000	0 - 40	15	393,00
0872 2040	4.000	0 - 40	18	523,00

The universal lifting clamp for the horizontal transport of pipes. The clamp housing has a slit aimed at gribbing girders at their front side. With safety immobilization; may be locked in open resp. closed position. When applied in a pair the acceptable angle of inclination can not exceed 30°.

Also suitable for the transport of profiles, metal sheets and plates.



Do 701/702 shaft gripper for transport and shifting shaft rings

article no.	model	lifting capacity kg	number of claws	range of grip mm	inner pipe diameter	own weight ca. kg	price EUR
0809 0051	Do 701/1	500	1	40-120	-	7	285,00
0809 1002	Do 701/2	1.000	2	40-120	0,8-2,0	14	395,00
0809 1503	Do 701/3	1.500	3	40-120	0,8-2,0	21	445,00
0809 1513	Do 701/L	1.500	3	40-120	0,8-2,8	22	515,00
0809 1001	Do 702/1	1.000	1	60-180	-	13	395,00
0809 2012	Do 702/2	2.000	2	60-180	0,8-2,0	26	515,00
0809 3003	Do 702/3	3.000	3	60-180	0,8-2,0	40	785,00
0809 4004	Do 702/L	3.000	3	60-180	0,8-2,8	41	865,00
0809 3023	Do 702/4	4.000	4	60-180	0,8-2,0	55	1310,00

Fixing the range of tightening is not neccessary anymore and accidents caused by wrong adjusted clamps are included.Due to an open-keeping-device the clamp does not have to be lifted anymore in case of lifting and releasing.
For: thin wall shaft rings, shaft rings according to DIN 4034, part 1, shaft rings according to DIN 4034, part 2, symmetrical shaft necks (cones) according to DIN 4034 and asymmetrical shaft necks (cones) according to DIN 4034

- **Lifting belt instead of a chain as suspension unit means lower weight**
- Easy in lifting and releasing by means of open keeper: the clamp does not have to be lifted
- No adjusting of the range of tightening necessary
- High transmission secures the optimum of safety
- With spring tension

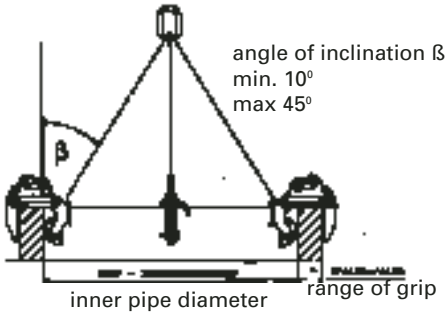
Do 700 pipe shaft suspension

article no.	modell	lifting capacity kg	range of grip mm	inner pipe ø mm	own weight ca. kg	price per piece EUR
0809 1500	Do 700	1.500	40 -120	0,4-2,0	41	446,00
0809 3010	Do 700	3.000	50 -180	0,4-2,0	75	689,00
0809 1510	Do 700 L	1.500	40 -120	0,4-3,0	43	513,00
0809 3000	Do 700 L	3.000	50 -180	0,4-3,0	77	740,00

An ideal lifting device for the vertical transport of pipes and shaft rings. Just putting it on the pipe which is to be transported.Suitable for hardest work-conditions.With handgrin for easy handling,low own weight.Large range of grin.

Scope of delivery each suspension:

- 3 grabs
- high strength chain
- crane hook eye



Do 740 pipe shifting hook, for pipe length of up to 1 m

article no.	lifting capacity kg	hook throat mm	min. weight ca. kg	own weight ca. kg	price EUR
0809 7410	1.000	190	–	24	340,00
0809 7430	3.000	260	–	45	625,00

Suction lifting and transport devices

DoLast

The needless stay under lifting devices is forbidden.Striethly forbidden is the stay under magnet-, vacuum-, and friction-force devices The respective regulations according to the UVV and DIN EN 13155 apply.

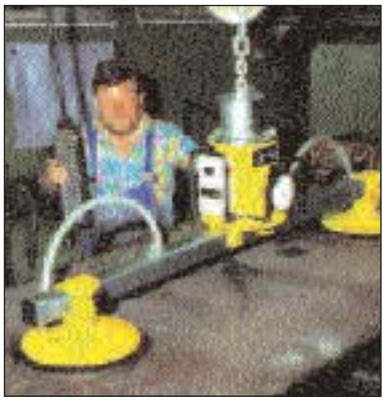
Do 65V Vacuum-self suction equipment

Fields of application:

Horizontal transport of airtight load-materials with relatively clean and level-surface, e.g. metal plates, polished marble or granit blocks, coated shipboards, plastic-boards etc.

Their advantages:

- simple and easy handling
- gentle transport of treated surfaces
- nearly maintenance-free, even under harsh conditions in plants with intense dirt emission or under open air
- No external energy so a current feed cable is not neccessary
- After linking-in the hook of a lifting device – immediately ready for use at any time
- Except of the control by crane – no other handling of the device necessary. Automatically work-cycle-switching
- excellent use caused by low own-weight
- By lifting metal sheets or plates wit hout interlayers, only the upper unit will be lifted.



article no. 65 V	lifting capacity max. kg	needed suction surface, suction cups mm	traverse mm	own weight ca. kg	price per piece Do EUR
Single device for form stable loads					
0860 1030	270	350 ø	-	21,5	2688,00
0860 1075	640	480 ø	-	72	4405,00
0860 1075	1100	625 ø	-	130	6544,00
Multi-cup standard device for mainly extensive and labile loads (e.g. thin metal sheets)					
0860 2020	300	2 St. 350 ø	1500	47	3822,00
0860 2075	300	4 St. 250 ø	2000	130	4543,00
0860 2125	270	6 St. 210 ø	2000	225	5620,00
0860 2250	750	2 St. 415 ø	1500	540	6650,00
0860 2400	750	3 St. 350 ø	2000	850	7079,00
0860 2700	650	6 St. 250 ø	2000	1400	8885,00
0860 2020	1250	2 St. 625 ø	1500	47	9792,00
0860 2075	1000	4 St. 350 ø	2500	130	10812,00
0860 2125	1250	4 St. 415 ø	4000	225	12075,00
0860 2250	2300	4 St. 480 ø	500	540	17640,00
0860 2400	2100	2 St. 625 ø	1725	850	16076,00
0860 2700	2200	4 St. 625 ø	4300	1400	20215,00
0860 2400	2200	10 St. 350 ø	4400	850	23998,00
0860 2700	4000	6 St. 625 ø	6000	1400	27115,00

Special models of higher lifting capacities or with by motor driven vacuum generators are also available. Please request.

Do 60 manual suction lifter – the strong lifting, carrying and holding power

Suction lifter with up to 3 round suction suckers for lifting up to 150 kg. Body made of aluminum with plastic covered control-elements, marked withTÜV-GS-signs. Large range of grip, with mobile heads and adjustable joints. Smooth suction-rubber-disc or with sealing-lip. Manifold special-construction for lifting floor-plates, fixing windshields or for glass-gluing purposes.For „grabbing“ safety in handling glass-panes, plastic-plates, coated wooden-plates as well as for metal-sheets, marble-, artificial stone and ceramic plates.

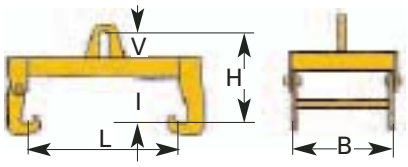
article no. Do 60	model	lifting capacity kg	description	diameter of suction cups ca. mm	own weight ca. g	price per piece EUR
0860 7000	600.0 BL	30	1 – head – alu	120	509	63,00
0860 7001	610.0 BL		rubber disc for 1 head	120	225	20,00
0860 7002	S 0.0 BL	2 x 30	set with 2 x 600.0 BL in a box	120	1.520	110,00
0860 7003	601	150	suction lifter with manual pump	210	1.625	139,00
0860 7004	602.0 BL	70	2 heads – alu	120	1.077	78,00
0860 7005	602.4 BL	60	2 heads – alu	120	1.010	60,00
0860 7006	S 2.4 BL	2 x 60	set with 2 x 602.4 BL in a box	120	2.500	115,00
0860 7007	603.0 BL	100	3 heads alu	120	1.433	84,00
0860 7008	S 3.0 BL	2 x 100	set with 2 x 603.0 BL in a box	120	3.970	151,00
0860 7009	614.0 BL		rubber discs for heads 2 and 3	120	170	22,00

Special traverses

DoLast

Do 312 pallet-box-travers

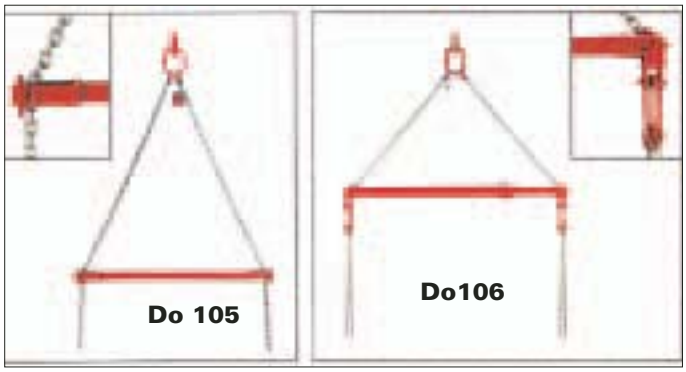
article no.	lifting capacity kg	ca. dimensions in mm B	H	I	L	V	own weight ca. kg	price per piece EUR
0817 0010	1.000	600	360	150	1200	120	40	638,00
0817 0020	2.000	600	380	160	1200	120	45	799,00
0817 0030	3.000	600	450	160	1200	150	65	848,00



The traverse designed for individual transports of pallet-boxes has two rigid link-in-hooks as well as ttilting hook which are connected with a handrail.It can be fixed and released from a pallet-box by a single person

Expanding beam Do 105 / 106 in rigid and adjustable design

Do 105 rigid article no.	Do 106 adjustable article no.	chain thickness d = mm	working width rigid starr mm	lifting capacity in kg angle of inclination max. 45°	working width adjustable mm	lifting capacity in kg angle of inclination 0-45°	lifting capacity in kg angle of inclination 45-60°	own weight (without chain) ca. kg	price per piece EUR rigid	adjustable
0810 5014	0810 6014	6	1.000	1.400	1.000 - 1.500	1.400	1.000	5/10	414,00	590,00
0810 5028	0810 6028	8	1.500	2.800	1.200 - 2.000	2.800	2.000	6/14	472,00	655,00
0810 5045	0810 6045	10	1.500	4.500	1.200 - 2.000	4.500	3.200	8/16	500,00	800,00
0810 5071	0810 6071	13	1.500	7.100	1.200 - 2.000	7.100	5.000	12/28	618,00	940,00
0810 5112	0810 6112	16	2.500	11.200	1.900 - 2.500	11.200	8.000	16/50	730,00	1112,00



Do 105 rigid expanding beam with a through chain, adjustment by a locking-pin
Do 106 expanding beam adjustable with 2-legs chain suspension, fixed mounted, working width adjustable by locking-pin.

Do 111 frame traverse

article no.	lifting capacity kg	work dimensions mm	weight ca. kg	price EUR
0811 1010	1.000	2.000x1.000	100	1.186,00
0811 1011	2.000	3.000x1.500	150	1.728,00
0811 1012	3.000	4.000x2.000	280	2.240,00

Against a surcharge also available a welded steel frame with a 4 chain suspension, at each corner with an eye hook or swivel safety hook.

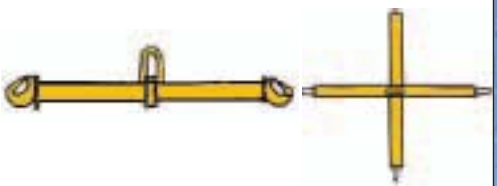
Cross traverses 209, 210, 211

type	article no.	lifting capacity kg	work dimensions mm	weight ca. kg	price EUR
209	0811 0905	500	1.000x1.000	20	1.057,00
209	0811 0911	1.000	1.000x1.000	15	1.207,00
210	0811 2105	500	1.000x1.000	25	510,00
210	0811 2110	1.000	1.000x1.000	20	628,00
210	0811 1050	500	1.000x1.000	15	1.030,00
211	0811 2011	1.000	1.000x1.000	25	1.224,00

Do 210 cross traverse

With 4 head bars for big bags, easy to hang in and to release.

Do 209 cross traverse



With 4 welded safety hooks YAS, for big bags.

Do 211 cross traverse

With a 4 chain suspension or welded single point suspension for loading lattice boxes, big bags etc.

Container traverses rigid / adjustable

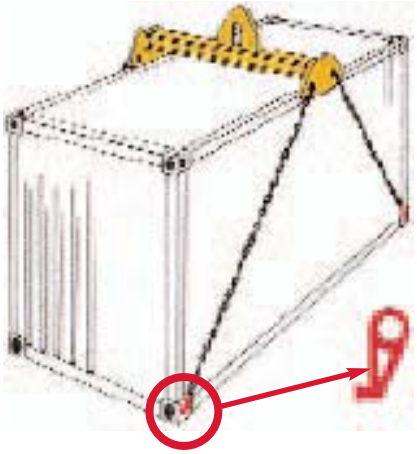
DoLast

... the two traverse variants rigid or adjustable ✔

Do 112 container traverse with cargo appliances

article no.	lifting capacity kg	price per piece EUR
0817 2100	10.000	1.299,00
0817 2200	20.000	1.444,00

With 4 chains or ropes and a special container hooks automatically self-locking by lifting



Container hook CH-3

Cargo appliances for a Do 112 container traverse, with container hook CH-3 suitablefor 20 ft. and 40 ft. Containers

Chain appliances set

article no.	lifting capacity kg	container ft.	length m	price per set EUR
2999 2401	10.000	20	4,5	820,00
2999 3601	20.000	20	4,5	1360,00
2999 2401	10.000	40	7,5	1012,00
2999 3601	20.000	40	7,5	1840,00

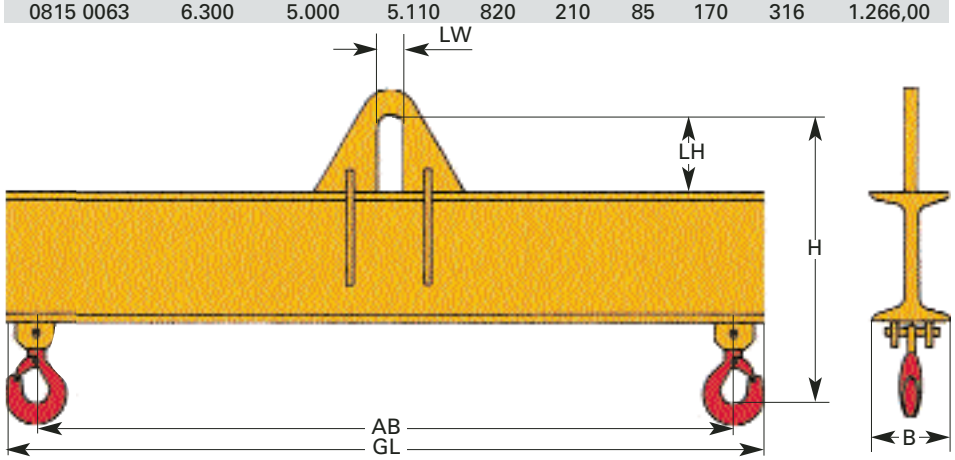
Steel wire rope appliance set

article no.	lifting capacity kg	container ft.	length m	price per set EUR
2999 2401	10.000	20	4,5	820,00
2999 3601	20.000	20	4,5	1360,00
2999 2401	10.000	40	7,5	870,00
2999 3601	20.000	40	7,5	1564,00

On request:Traverses with higher lifting-capacity and bigger working width. We also manufacture traverses according to your measurements and specification.Please request.

Do 310 rigid traverse

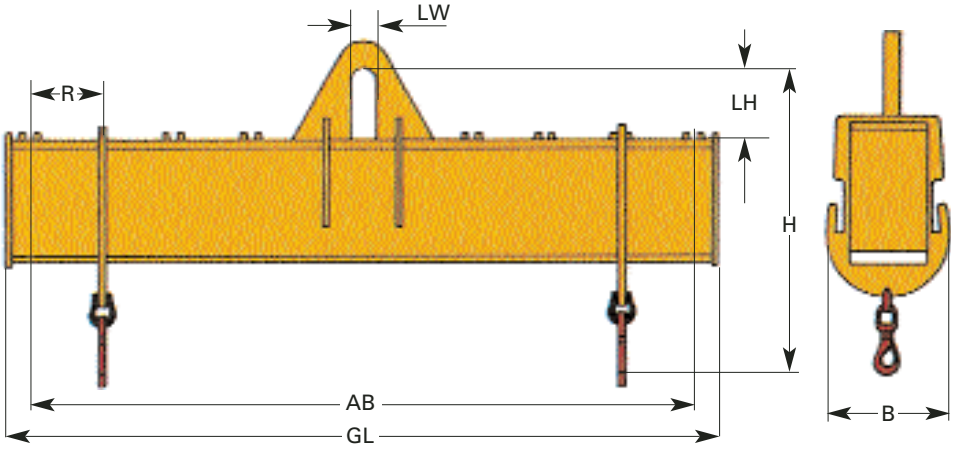
article no.	lifting capacity kg	AB	GL	dimensions mm H	LH	LW	B	own weight ca. kg	price per piece EUR
0811 0010	1.000	1.000	1.050	380	125	55	55	14	418,00
0812 2510	1.000	2.500	2.570	420	125	55	75	39	510,00
0811 6016	1.600	1.600	1.670	420	125	55	75	27	504,00
0813 1016	1.600	3.150	3.220	460	125	55	90	66	612,00
0814 0025	2.500	4.000	4.090	570	150	60	110	120	756,00
0812 5040	4.000	2.500	2.600	600	175	70	110	81	687,00
0815 0040	4.000	5.000	5.100	680	175	70	150	230	1.020,00
0815 0063	6.300	5.000	5.110	820	210	85	170	316	1.266,00



One point suspension: safety eye hook (tilting)

Do 315 traverse adjustable

article no.	lifting capacity kg	AB	GL	dimensions mm H	LH	LW	B	R	own weight ca. kg	price per piece EUR
0851 0010	1.000	1.000	1.050	380	125	55	260	150	25	622,00
0852 5010	1.000	2.500	2.570	420	125	55	260	150	46	714,00
0851 6016	1.600	1.600	1.670	420	125	55	260	200	36	687,00
0853 1016	1.600	3.150	3.220	460	125	55	290	200	80	842,00
0854 0025	2.500	4.000	4.090	570	150	60	330	200	165	1.122,00
0852 5040	4.000	2.500	2.600	600	175	70	400	250	120	1.020,00
0855 0040	4.000	5.000	5.100	680	175	70	430	250	268	1.503,00
0855 0063	6.300	5.000	5.110	820	210	85	500	250	416	1.927,00



One-point-suspension: on the sides with 2 pairs of adjustable shoulder hooks and 2 pieces of swivel safety hooks (turning and deflectable)

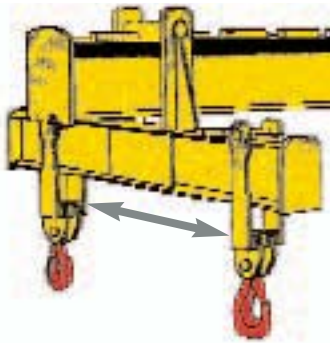
A DoLast H-traverse with a one-point--suspension saves lifting height.

H-Traverses rigid / adjustable

DoLast

The indication of lifting capacity applies to a load-distribution on all four hooks Do not use one diagonal only !

Do 316 /T H-traverse, universally adjustable



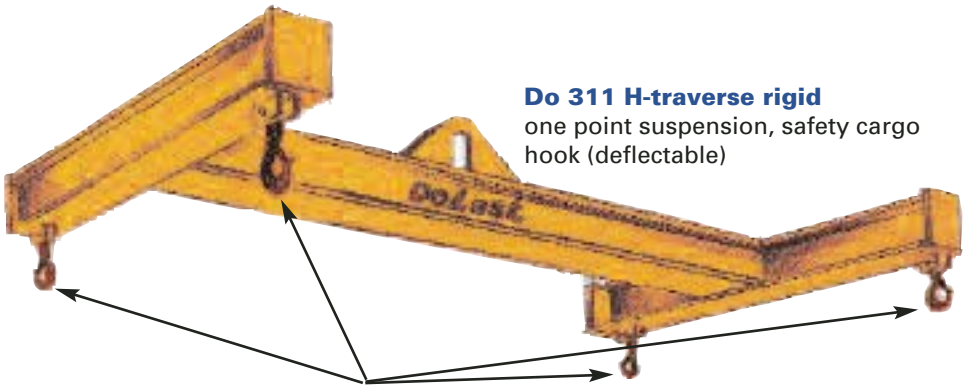
May be taken to pieces!

One point suspension, 4 pieces of universally adjustable eye-safety-hooks. Execution in a strong profile steel structure with 2 cross traverses which are adjustable in a screen, with 2 adjustable splice bars. For transport the traverse suspension is taken into pieces, i.e. the cross traverses may be disassembled.

Cross traverses completely assembled, with a data plate and a specification of lifting data.

Do 311 + 316 H-traverses

article no.	lifting capacity	width of working main girder	screen adjusting main girder	width of working cross girder	sreen adjusting cross girder	own weight	price per piece
Do 311	kg	mm	mm	mm	mm	ca. kg	**EUR**
0811 1010	1.000	2.000	–	1.000	–	55	1.041,00
0811 1025	2.500	2.000	–	1.000	–	90	1.207,00
0811 1026	2.500	3.000	–	2.000	–	230	1.503,00
0811 1050	5.000	3.000	–	2.000	–	340	2.045,00
0811 1051	5.000	4.000	–	2.000	–	450	2.244,00
0811 1052	5.000	5.000	–	2.500	–	600	2.635,00
0811 1075	7.500	5.000	–	2.500	–	680	2.979,00
0811 1076	7.500	6.000	–	3.000	–	980	3.822,00
0811 1100	10.000	4.000	–	2.500	–	775	3.511,00
0811 1101	10.000	6.000	–	3.000	–	1.150	4.300,00
0811 1150	15.000	6.000	–	3.000	–	1.400	5.368,00
Do 316		max.-min.		max.-min.			
0800 1610	1.000	2.000x1.000	4 x 125	1.000x500	2 x 125	90	1.213,00
0800 1625	2.500	2.000x1.000	2 x 125	1.000x500	2 x 125	140	1.411,00
0800 1626	2.500	3.000x1.000	4 x 250	2.000x1.000	4 x 125	230	1.755,00
0800 1650	5.000	3.000x1.000	4 x 250	2.000x1.000	2 x 125	340	2.383,00
0800 1651	5.000	4.000x1.000	6 x 250	2.000x1.000	4 x 250	450	2.619,00
0800 1652	5.000	5.000x1.500	8 x 250	2.500x1.000	8 x 250	600	3.070,00
0800 1675	7.500	5.000x1.500	7 x 250	2.500x1.000	4 x 250	680	3.473,00
0800 1676	7.500	6.000x2.000	9 x 250	3.000x1.000	6 x 250	980	4.461,00
0800 1600	10.000	4.000x1.000	5 x 250	2.500x1.000	4 x 250	775	4.096,00
0800 1601	10.000	6.000x2.000	6 x 250	3.000x1.000	6 x 250	1.150	5.014,00
0800 1615	15.000	6.000x2.000	4 x 500	3.000x1.000	4 x 300	1.400	6.259,00



Do 311 H-traverse rigid
one point suspension, safety cargo hook (deflectable)

Even with swivel-hook available!

Do 316 H-traverse universally adjustable
with 4 pieces swivel safety hooks WHS (turning and tilting)

On request: Traverses with higher lifting-capacity and bigger working width. We also manufacture traverses according to your measurements and specification Please request !.

Reversible traverses

DoLast

Turn and rotate bulky elements faster, easier and safer.

Do 216 reversible traverse, mechanically adjustable

article no.	lifting capacity kg	working width mm	sreen mm	own weight ca. kg	price per piece **EUR**
0812 1810	1.000	1.000	2x150	25	676,00
0812 1811	1.000	1.600	3x150	34	708,00
0812 1812	1.000	2.500	5x150	46	773,00
0812 1813	1.000	3.150	7x150	56	842,00
0812 1816	1.600	1.600	2x200	36	740,00
0812 1817	1.600	2.500	4x200	67	826,00
0812 1818	1.600	3.150	5x200	80	907,00
0812 1819	1.600	4.000	7x200	97	987,00
0812 1825	2.500	2.500	4x200	84	928,00
0812 1826	2.500	3.150	5x200	100	993,00
0812 1827	2.500	4.000	7x200	165	1.191,00
0812 1828	2.500	5.000	9x200	197	1.293,00
0812 1840	4.000	2.500	3x250	120	1.084,00
0812 1841	4.000	3.150	4x250	141	1.154,00
0812 1842	4.000	4.000	6x250	224	1.444,00
0812 1843	4.000	5.000	7x250	268	1.583,00
0812 1863	6.300	3.150	4x250	227	1.503,00
0812 1864	6.300	4.000	6x250	271	1.632,00
0812 1865	6.300	5.000	7x250	416	2.007,00
0812 1866	6.300	6.300	9x250	505	2.211,00

Single point suspension- amnually adjustable width- with Dolezych bandslings.DoLast reversible traverse may be equipped with an electric motor in any lifting capacity classes. To reverse the traverse mechanical two persons are needed, for the electromotive reverse only one person has to move the load - please request !

Do 216 reversible traverse adjustable by an electric motor – please request!

Special construction

DoLast

Please request these special structures.

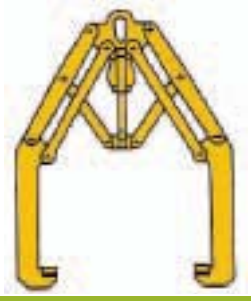
Do 6000 coil gripper

Driven by an electric motor, for transporting laying coils. Construction with or without a horizontal turning gear. With contact strips on the side to protect the coils against damages.

- Safety-switch against unintentional opening of grippers under load-for semi or fully automatic mode SPS controlled, low installation height
- robust construction by compact-design

Do 6100 parallelogram coil gripper

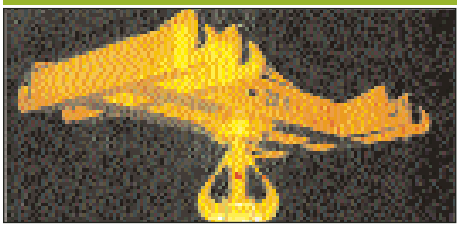
With or without horizontal turning gear. Sidewise space-saving. Robust maintenance-fee construction, especially suitable for schmeltery-handling. Lifting capacity up to 40 t.
Available are mechanical electromotor or electrohydraulic construction.



DoLast gripper for vertical coil transport

Sensor controlled parallelogram tongs

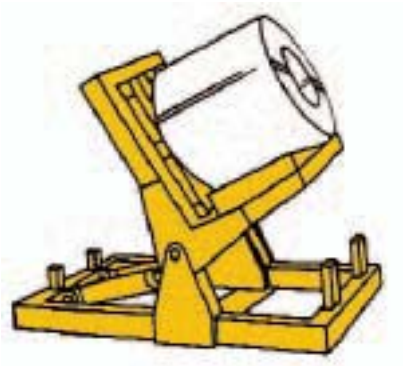
Combined traverse for the transport of pressing tools



Balance traverse with cross jib for the transport of e.g. prefabricated elements of concrete

Do 6200 coil tilting table

An electrohydraulic driven tilting table. The tilting angle is 90° for coils, paper rolls or cast elements. Extremely robust construction for the application in steel plants.
We manufacture tilting tables from 2,5 t up to 40 t of carried load. Also with fully automatic SPS control. With heat protection for work underheat. At choice with integrated or external pumping engine.



Coil turning tongs with integrated horizontal turning device

Loading fork with front side protection against slipping down

Dolezych

Terms of sales, delivery and payments

I. General stipulations

1. Conclusion of contract

Our deliveries take place only to the following terms. General business terms of the customer, conditions opposite to or differing from our sales, delivery and payment terms are not accepted by us, unless we shall univocally agree with their validity. They are not considered binding for us even when we shall not contradict them when signing contract. Our sales, delivery and payment terms are considered accepted the latest at the moment of receipt of merchandise.

In relation to entrepreneurs in the understanding of § 14 of BGB (German Civil Code), legal persons according to public law or to the public-legal separate estate (hereinafter called "entrepreneur") these terms of business will be in force also with respect to future successive business under the provision that we are univocally entitled to reserve for ourselves the right for changes regarding future business. In relation to customers who are not entrepreneurs, these terms of business may be changed resp. extended on future business only in form of a contractual agreement. All our offers are without engagement and not obligatory. They will become obligatory for us, similarly as orders, price agreements and any other agreements, in particular when they will be changing these terms of sales, only after their confirmation on our side in writing.

Documentation referring to the sale, as attached to our offer, like drawings, pictures, as well as the contained therein or in a different way imparted technical data, references to standards and statements made in advertising materials, are no information on the nature of product, nor a promise as to its properties, or a guarantee, unless they will be univocally called by us as such in writing. The therein contained data (data on weight and dimensions inclusive) have been carefully put together, errors and omissions accepted.

2. Prices, terms of payments

Price list for the trade and for professional consignees. There are in force prices quoted in our confirmation of order and prices quoted in our price list being valid in the time of the conclusion of contract, plus the value added tax as imposed by law. In case that the cost of materials, wages, auxiliary materials or statutory dues, for reasons being out of our control will get considerably increased in the period between the conclusion of contract and delivery, in case it will exceed 6 weeks, we are entitled to increase respectively the agreed upon price, on the condition of disclosing the basic calculation , as well as of explaining the increase of specific cost factors in order to balance the increased costs. In relation to customers who are not entrepreneurs we are entitled to act this way only when the period between the conclusion of contract and the time of delivery will exceed 4 moths. These customers are in such a case entitled to withdraw from the contract. The declaration of withdrawal should be made immediately in writing. In case no other arrangements have been made, all payments should be made in cash within 30 days of the date of invoice with no deductions whatsoever. After the expiration of this deadline - in case no other arrangements have been made – default starts acting. In case of default, we are entitled to insist on interest for default according to §§ 247, 288 BGB (in case of users – 5%, of non-users – 8% - in either case above the basic interest).

This does not exclude the possibility of setting up further claims, if a damage is more extensive. Deduction of a discount for payment may be accepted only in case of an univocal agreement and may refer only to the invoice value, freight excluded. Anyway, the deduction of a discount is based on the assumption that the total value of the customer's obligations is paid. Promissory notes and bills for discount are accepted by us as payment only against a univocal agreement. Credit notes by means of cheques or bills are accepted on condition that payment will be effected, after deducting costs of discounting, possible bank and acceptance charges, at value of the day on which we may dispose of the counter value.

In case that after conclusion of contract certain facts will become known to us indicating a considerable deterioration of our customer's financial standing and thus giving us justified doubts about the customer's solvency, we will be entitled to insist on full payment or on respective securities prior to delivery resp. in case of setting a deadline with no effect – to withdraw from contract. Apart from the fact of default of payment, as a proof for the considerable deterioration of the customer's financial standing will be particularly considered respective information, which in a business like way will be sought at a bank, an inquiry office or at a company being in business relations with the customer. In case the delivery already took place, all claims in connection with it will become payable immediately, regardless the agreed upon payment conditions, if necessary - by returning the bills. We also will be entitled to insist on immediately settling all other claims resulting of the running business relations with the customer and to withdraw the authorization for collection according to pos. I no.3. The customer is allowed to deduct only claims which are uncontested, legally valid and accepted by us. The Customer is entitled to exercise the right of retention only in case of counter claims resulting of the same contract.

We reserve for us the right, in case of contracts amounting to less than 75 Euro, to debit an individual low value surcharge. In case of minor contracts valid less than 30 Euro, to the agreed upon unit prices we shall put into the invoice respective administrative costs.

3. Property reservation clause

Until the fulfilment by customer of all his payment obligations towards us resulting of our business relation – irrespectively of the legal basis - all the delivered merchandise will remain our property. This refers also to payments for the delivery of merchandise to which the customer univocally refersto. In case of running invoices the property reservation is considered a security on our balance claims.

The customer commits himself to handle the merchandise with care and on our demand, to insure it adequately against any damages for the duration of our property reservation. Then the customer transfers to us the right for claims covered by the insurance. The customer is entitled to sell the merchandise, being subject to our property reservation, only in a legally accepted way and only when he is not in default; however, at this moment he is obliged to transfer to us all our claims equal with the final invoice value (VAT inclusive) which he will be paid following the resale to his buyers or to third parties, does not matter whether the subject of delivery has been resold without or after additional processing. These amounts will be securing our claims in the same way as the merchandise covered by the reservation. The customer will be authorized to collect the claims also after the transfer; this will not infringe our right to collect the claims ourselves. We only have the right to withdraw the customer's

authorization for collection and to collect the claim ourselves in case of default of payment or in case of a considerable deterioration of the customer's financial standing, pos. I no. 2. In such an event, is the customer on our demand obliged, in case we will not do this ourselves, to immediately advise his consignees of the transfer and to supply us or furnish us with all information and documents necessary for the purpose of collection.

Processing of the delivered merchandise takes place on our behalf without any of this resulting obligations on our side. In case during the processing of the merchandise, being subject to our reservation, the customer will combine it with other, not belonging to us subjects, we shall become a joint owner of the new product in a proportion of the merchandise value at the time of processing to that of the other subjects also being processed. Besides, as regards the product being the effect of processing, the same applies to it as in case of merchandise delivered and being subject to property reservation. The customer's right for prospective advantages from the merchandise goes over onto the new product.

In case the merchandise will get inseparably mixed with other subjects which are not our property, we shall acquire joint ownership of the new product in a proportion of the merchandise value to that of the other subjects mixed in at the time of mixing them. If mixing will take place in such a way that the customer's element has to be considered the main element of the new product, then it is considered as agreed upon, that the customer will transfer to us the proportional joint property. The customer is going to entrust us with the sole resp. joint property.

The customer is not entitled to dispose of the merchandise being subject to reservation in a different way, and particularly not to pawn it nor to transfer its property to secure a liability. When the value of securities covering our claims will exceed them by more than 20% we, on demand of the customer, are obliged to release securities at our discretion to that extent.

In case the customer will behave in discordance with contract, in particular in case of default of payments and when after the conclusion of contract circumstances will arise which will endanger meeting by him his commitments towards us, we are entitled to take back our merchandise. Taking back the merchandise resp. vindicating our right for property reservation does not require withdrawing by us from contract. Such acting or pawning the merchandise on our side does not mean that we are withdrawing from the contract, unless we shall announce this univocally in writing after the expiration of an adequate additional deadline. After taking back our merchandise, we are entitled to utilize it. The income from its utilization is to be accounted for the claim being in force against our customer – after deduction of the respective cost of utilization. In this case, on our insisting, the merchandise is to be passed on to us immediately according to an inventory list. In case of pawnings or confiscating by third parties the merchandise being subject to reservation, or the claim which has been transferred to us, the customer is obliged to point out us as proprietors of the merchandise being under reservation or transferred to us and to inform us of this immediately by supplying us with the documentation required according to § 771 ZPO(German rules on civil proceedings) for a plaint. In case the plaint according to § 771 ZPO will prove to be successful but the third party will not be able to bare its expenses, its expenses will be born by the customer.

4. Liability

We are liable, does not matter of which legal reason, for compensation of unlimited value for damages which have been caused deliberately or because of a gross negligence by us, by our legal representatives or our aids acting on our behalf, for damages resulting of affected life, body or health, even if resulting of a minor infringement of duties on our side, by our legal representatives or our aids acting on our behalf, for damages resulting of the lack of a guaranteed property or of defects which we have deliberately concealed. In the relation between enterprises we are liable for infringement of important obligations resulting of contract, in case our liability has not been justified above - to the level which has been limited for a typical for a contract damage which could be foreseen at the moment of signing the contract.

Any further liability for compensation of damage, in particular liability without being guilty, is excluded.

Liability resulting of the Product Liability Law is untouched.

5. Place of fulfilment and competent court

Place of fulfilment of all rights and duties of both contract Parties, including payment obligation of customer – is Dortmund. In case of contracts with entrepreneurs, legal persons according to public law or to the public-legal separate estate, the competent court for all litigations resulting of contract relations is Dortmund.

6. German Law, partial non-efficiency

The law of the Federal Republic of Germany is in force. The UN Commercial Law (CISG) is excluded. The non-efficiency of individual stipulations of these terms does not affect the efficiency of the remaining regulations. The contract Parties commit themselves to replace the non-efficient obligations with stipulations closest possible to the intended result and which the Parties would agree upon, if they knew that these stipulations are non-efficient.

II. Execution of delivery

1. Delivery time

A delivery time starts with the date of confirmation of order however, not prior to fulfilling by the customer in due time and orderly his obligations and particularly not prior to supplying by the customer the respective documentation, acceptances, releases and not prior to making the agreed upon advance payment. In case a delivery time has been promised as binding, it will be considered as kept, when and if the merchandise will be sent by us in due time or announced as ready for delivery. This does not refer to cases when an acceptance of merchandise has been conditioned by contract or when an assembly obligation has been agreed upon.

In case of set terms or delivery times which have not been univocally agreed upon as "fixed", in case of exceeding them, the customer can set for us an appropriate additional time of delivery or service execution. Only after the expiration of this additional time may we be considered as being in default.

Appropriate and in time advance supply is reserved. Delivery terms and periods get extended by the period of a hindrance and of a respective time for restarting in case of act of God, in case of measures taken in connection with unrests of social nature, particularly with strikes and lock-outs and in case of the occurrence of uncommon events being not a fault of the Parties, of interference of authorities, of problems with energy supplies etc. which are beyond our will, and in case that such circumstances and events will influence manufacturing resp. delivery of merchandise. The same counts in cases when such circumstances and events will take place with respect to our sub-suppliers. Our customer will be immediately informed of such circumstances. In case that a Party will consider such events or circumstances as not favourable for the execution of contract, it is entitled to withdraw from contract. In all such cases any claims for indemnification are excluded.

2. Partial deliveries, orders for deliveries on demand

Dolezych

Terms of sales, delivery and payments

We are entitled, in a reasonable range, to render partial services. In case of orders for delivery on demand, we are entitled to manufacture resp. to let manufacturing the entire ordered volume as one lot. Therefore any possible requests for changes will not be considered anymore after the conclusion of contract, unless this will be univocally agreed upon.
Terms resp. volumes of deliveries which have not been fixed by contract, may be kept by us only within our delivery resp. manufacturing possibilities. In case the merchandise will not be called out according to the stipulations of contract, we will be entitled to charge for it after the delivery in a reasonable additional time.

3. Acceptance
When certain quality requirements have been agreed upon or in case the merchandise is to be delivered abroad, the customer is obliged, to control and accept the merchandise in our facilities within 5 days from notifying him that the merchandise is ready for delivery. Expenses connected with the accepting personnel are to be born by the customer, while material acceptance expenses – by us. In case, that after notifying the customer that the merchandise is ready for delivery, he will not accept the merchandise, not accept it in the agreed upon time or not all of it, we will be entitled to take the merchandise into a warehouse and to charge the customer with our respective costs resp. with the costs of our subcontractor warehouses or, after fixing a reasonable additional time of acceptance - to supply the customer the merchandise at his expense. In such a case, with sending out the merchandise or with putting it into a warehouse, the merchandise will be considered accepted.
In case the purchase will be for both parties a business deal, then the customer, unless chapter 1 will become applicable, has to notify by telefax of the external, visible faults within 8 days from receipt of merchandise. For non business partners the term for notifying of external, visible faults is 14 days on the receipt of merchandise, while as regards hidden faults, they should be claimed in writing in the form as above within 2 months from their discovering, by stopping any processing on resp. with it.

4. Packing
In case the delivery must take place on drums, these have to be invoiced and covered by payment. When returned to consigner in good condition free of charge within two years, the round drums will be credited by 2/3 of invoiced value. After the expiration of 2 years their returning may be accepted against a special agreement. Cross drums will not be taken back.
The packing will be weighed together with merchandise. Merchandise delivered in coils without drums will be accounted for gross per net. When selling by meters, the packing will be charged 2% of merchandise invoice value however, not less than EURO 5,- .

5. Shipping and risks
Material which has been notified as ready for shipment, must be immediately called out for delivery according to the stipulations on delivery, otherwise we are entitled, acting at our discretion to the expense of the customer, to store it and after notifying its readiness for delivery – to charge the customer with it as delivered on the "ex factory" basis. In case that according to contract the merchandise should be delivered by truck, and the merchandise will not be picked up within 5 days after our notification of its readiness for delivery, which will be meeting the agreed upon delivery time, we will be entitled to send the merchandise by a means of transport at our discretion. This does not affect the legal stipulations regarding default of acceptance. However, by transferring the merchandise to a forwarding agency, a carrier or freighter, at the moment of leaving the factory the latest, any risk, risk of confiscation inclusive, goes over on the customer. This is also valid in case when free of charge freight delivery will be agreed upon. In such a case the routs, means of transport and protection measures will be reserved for our discretion. Means of protection , covered , open or special trucks will be charged separately.
The transport will be effected on the customer's order.
In case that due to circumstances applicable to the customer, the delivery will be delayed, the risk goes over to the customer from the day of our notification about the readiness for delivery. On the customer's request, the merchandise will be insured by us at his expense against the risk of theft, breaking, transport, fire, water and any other damages.

6. Material and legal faults
Services which have been promised by us will be carried out by meeting by us the up-to-date state of technique and the respective legal stipulations, as well as by observing the typical for the branch care. The condition for our responsibility for material and legal faults, hereinafter called "faults" is, that these will not result of the inappropriate use, of inappropriate assembly resp. start up, of negligence in handling or of the application or use of inadequate means of production resp. substitute materials by the customer or by third parties, of natural wear, of inadequate building and construction work, of chemical, electrochemical and electrical influences – as long as these circumstances will not result of our fault , the customer has met his obligations according to pos. II no.3 and by taking into consideration the respective warranty condition – not to fall into default of payment. To enable us undertaking all measures deemed by us necessary for removing the faults or replacing them by means of additional deliveries, the customer is obliged to grant us, in co-operation with us, the necessary time and opportunity; otherwise we shall feel free from being involved into the resulting consequences of such faults. Only in case of an urgent necessity of preventing the endangered safety of operations and disproportionately bigger damages, or when we shall be in default of time with removing the fault, is the customer entitled to remove the fault himself or to let it be removed by a third party and to insist that we cover the respective involved expenses.
In case of claimed faults, the payments on the side of the customer may be withhold in an adequate proportion to the fault in question and only in case when his claims will be found incontestable or legal.

With respect to customers being entrepreneurs, the following applies:

In case the merchandise will have a fault, of which the reason was already obvious at the moment of risk transfer, the customer is entitled, at our discretion, to be satisfied by means of a repair or an additional delivery. Expenses necessary in this connection. like e.g. cost of wages, materials, transport and of equipment maintenance will be covered by us only in case, that the expenses will not increase because of transferring the merchandise later on to a different place than that of the customer's seat, unless this transfer will result of the requirements connected with its application. Parts which have been replaced are becoming our property and are to be returned to us. In case the customer will not get the satisfaction, then he will be entitled – at his discretion – with no prejudice to his right for a possible compensation of damage resp. of his expenditures according to pos. I no.4, to decrease the payment or, in case of a considerable violation of our obligations – to withdraw from contract.
The customer's claims of recourse-back against us according to § 478 BGB (German Civil Code) exist only to the extent of the customer's arrangements with his receiver which do not go beyond the legal regulations on claims in connection with faults and the respective regulations, as contained in this chapter. In case that the customer will be considered in connection with a fault of a new manufactured product, he is obliged to immediately inform us of this. In case his consignees are entrepreneurs, it is his duty to respectively commit them. We reserve for us the right to settle on behalf of the customer claims of consignees addressed to our customer. In this case settling the claims of the consignee will be considered as settling respective claims of the customer.
Claims regarding faults get expired after 12 month. This does not apply when the claims are referring to our deliberate acting or when according to § 438 pos.1 no.2 (building structures, materials for building structures), § 479 pos.1 (claims of recourse-back), 634 a pos.1 no.2 (building structure faults) BGB longer periods are compulsory. We are liable for replacing elements resp. repairs up to the lapse of the expiration time limit which referred to the original consignment.
In case the customer's claim will prove to be not justified, we are entitled to insist that the customer covers our expenses which were born by us in this connection.

With respect to customers not being entrepreneurs, applies as follows:

With respect to claimed faults are legal stipulations in force, unless a different solution, as follows, will be found. Claims regarding faults have a period of expiration of 24 months, in case of used merchandise – 12 months. This does not apply when the claims are referring to our deliberate acting or when according to § 438 pos.1 no.2 (building structures, materials for building structures), § 479 pos.1 (claims of recourse-back), 634 a pos.1 no.2 (building structure faults) BGB longer periods are compulsory. We are liable for replacing elements resp.for repairs up to the lapse of the expiration time limit which referred to the original consignment.

7. Returning
Products which have been delivered by us in a proper condition and returned to us will be accepted by us only in exceptional cases and to our possibilities, when their condition will be excellent and when they will not be subjects made to order. We charge in such a case 25% of merchandise value to cover our expenses, however at least 50,- EURO.

8. Measures, weights, quality
Differences in measures, weights and quality are acceptable within the frame of trading practice resp. of the DIN stipulations. The weights which are stated by our weighers on our scales, which are subject to gauging and to a running control, are a reliable base for our calculations. In case of deliveries by trucks, the total truck load is becoming the base for the calculations. Differences with respect to individual weights are to be proportionally divided among them. The proof for the weight is a respective weighing report.

III Copyright

We reserve to us the unlimited property right and copyright for using cost estimates, drawings, designs and other documents. Such documents may be made accessible to third persons only against our consent. Drawings and other documentation being elements of our offers are to be returned to us on our demand. In case that the merchandise has been manufactured by us against drawings, models, samples or other materials, as supplied by the customer, the liability connected with the protection of copyrights of third parties goes over to the customer. In case that with reference to their copyrights, third parties will in particular not agree that such products are manufactured and delivered by us, we are entitled, with no obligation on our side to check the legal status, to stop any further activity and in case of the customer's fault – to insist on a compensation. The customer also commits himself to inform us immediately of any claims of third parties in this connection.

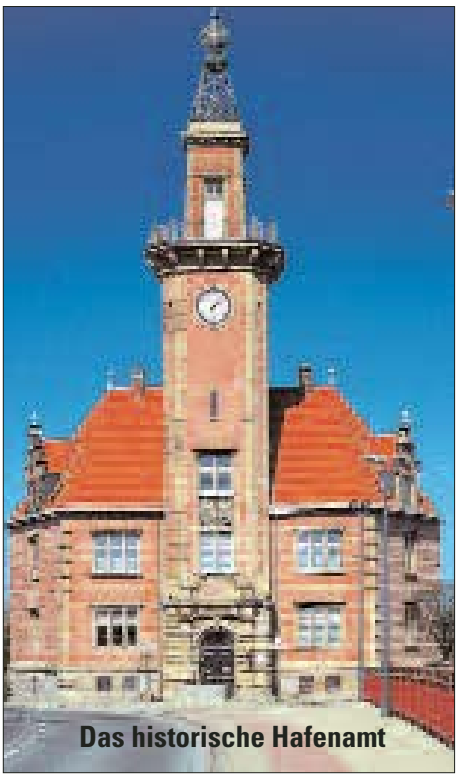
IV Additional conditions regarding exports

In case these sales conditions or any special arrangements will not determine anything different, our sales obligations will be governed by Incoterms - the international terms of trade, in their version valid on the day of the confirmation of order. Valid are prices set in our confirmation of order. Our prices are based on the assumption of regular, unrestrained transport conditions, and an case of transport by see – e.g. unrestrained ship transport. Any additional expenses resulting of an incomplete load, or of transport restrains are to be covered by the customer. When customs duties, consular dues, freights, insurance premiums and other extra expenses covered by the agreed upon price will increase after the conclusion of contract, or when new expenses will arise, they will be covered to this extent by the customer. Same refers to additional expenses which will result of the necessity of transporting the merchandise in a different way than agreed upon. If nothing else has been agreed, the payment should be effected immediately on receipt of invoice with no reductions whatsoever.
In case of damages resulting of transport, the customer is obliged to immediately induce bodies in charge to prepare a respective report, as otherwise the claims against the transporter and insurers will not be accepted. These conditions refer to the sales on the Fob basis and respectively to any other types of sales, in particular to sales on the franco-ship or cif- harbour of unloading basis. In case of any doubts, exclusively valid is the German version of our terms of sales, delivery and payments only.

Dortmund, February, 2003

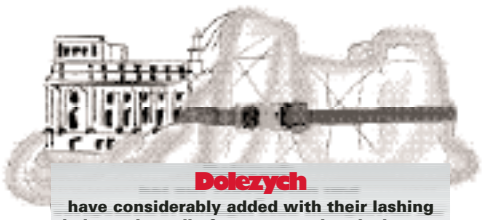
Dear Customer, rules in the Lawyer -German must unfortunately be formulated also among businessmen. However, we may assure you, that you – our customer – are for us the no.1 in our business relations. You may be sure that in case of any differences of opinions you will have in us a forthcoming and fair partner.

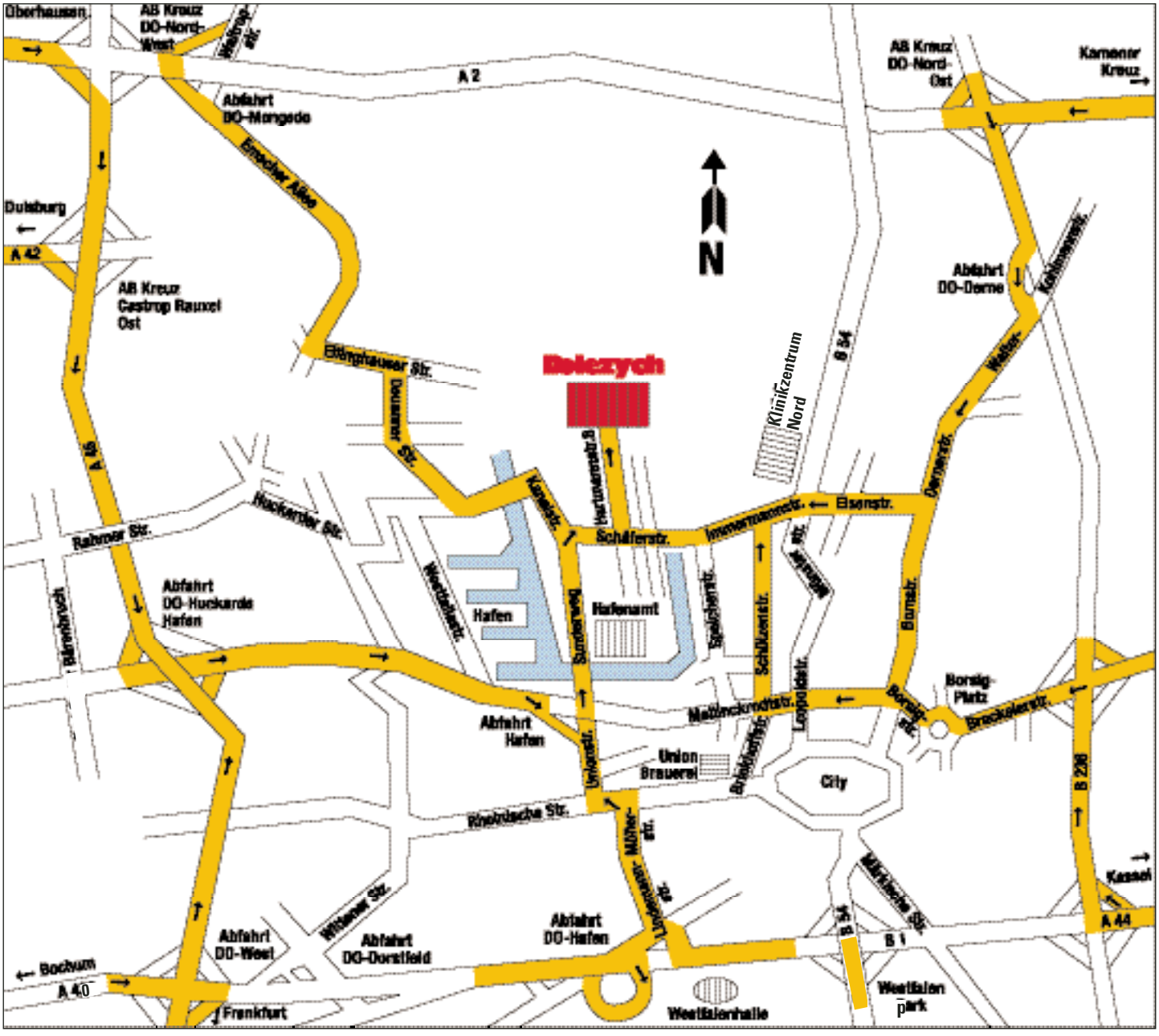
Dolezych
just reliable


Das historische Hafenamt

Dolezych
Can be easily found in Dortmund. It does not matter from which quarter of the globe you will come; The situation plan below will help you to get oriented and in case you will miss the way, then just take the direction “Hafen” (harbour).

Dolezych
Hartmannstraße 8 – 44147 Dortmund
Postfach 10 09 09 – 44009 Dortmund
Phone: 02 31/81 81 81
02 31/82 85- 0
Telefax: 02 31/82 77 82
Internet: www.dolezych.de
e-mail: dolezych@dolezych.de


Dolezych
have considerably added with their lashing belts and tensile force measuring devices to veiling the Reichstag



Orders per fax

(lease cross resp. enter the quantity)

Trucker's Disc
The "Correct lashing disc"

Please send me ☐ pcs.

at 5,50 Euro each, plus VAT and postage

Protractor
For determining the exact vertical resp. horizontal angle α and β

Please send me ☐ pcs.

at 5,50 Euro each, plus VAT and postage

Poster on lifting capacity
DIN A 1 size, indispensable for everybody who deals with slinging.
Price 2,50 Euro each, plus VAT and postage
Please send

me pcs.

(please enter quantity)

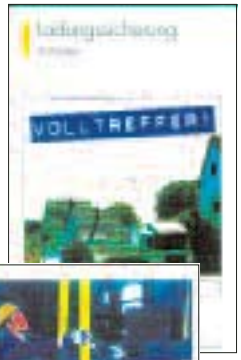
Dolezych educational videos
Please send me the following educational video:

Load protection "Hitting home"
24 min. VHS PAL
(at 14,40 Euro, plus VAT and postage)

☐ Please enter the quantity

"Slinging the right way"
VHS PAL
(at 46,02 Euro, plus VAT and postage)

☐ Please enter the quantity



Seminars materials
Please send me information materials to the following seminars: (please cross)

☐ means of slinging

☐ load protection

☐ running ropes

☐ dangerous loads

☐ personal protective equipment against falls (PSA)

Dolezych specialized books

Please send me the specialized book:
"Load protection the right way"
1. edition, 2003, 120 pages at 18,00 Euro per piece plus VAT and postage

☐ (please enter quantity)

Please send me the specialized book :
"Safe slinging of loads"
2. edition, 2003, 108 pages at 18,00 Euro per piece plus VAT and postage

☐ (please enter quantity)

Specialized papers

Please send me the following papers (please cross)

☐ "Load protection – an always up-to-date subject..."

☐ safe application of means of slinging (I-IV)

The clients' newspaper "Dolezych aktuell" (Dolezych today)

☐ Please send me the up-to-date edition of this client's news paper.

Don't forget!en!

Surname, name _____

Company/ Dept./position _____

Street/no. _____

Postal code/ place _____

Phone/fax _____

e-mail _____

Hartmannstraße 8 • 44147 Dortmund
Postfach 10 09 09 • 44009 Dortmund
Telefon 02 31 81 81 81 u. 8285-0
Fax 02 31 82 77 82 • info@dolezych.de

www.dolezych.de